

The  
**CHEMIST AND DRUGGIST**

or RETAILER — WHOLESALER — MANUFACTURER

NOVEMBER 22, 1952

FDA.



*A new  
formulation of  
'CETAVLON'*

the quaternary ammonium compound which is already well-known to pharmacists as a bactericide and detergent.

'Cetavlex' Cream, containing 0.5% 'Cetavlon' (Cetrimide B.P.) in a water-miscible base, is now being introduced to the medical profession as a germicidal application for the control of infection in wounds and burns, and the treatment of various infections of the skin.

A valuable addition to every First Aid Box, 'Cetavlex' Cream can be recommended with confidence for general antisepsis and healing—in hospital, in the factory, and in the home.

Tubes of 50 grammes. Retail Price 2/6d. each.

## 'CETAVLEX' Cream

Trade Mark

IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

A subsidiary company of Imperial Chemical Industries Limited Wilmslow, Manchester

Ph. 292



# WRIGHT'S

PACKED PHARMACEUTICALS · TOILET PREPARATIONS  
DISINFECTANTS · BULK DRUGS

## FOR THE WINTER SEASON

COD-LIVER OIL—*plain or emulsified*

COMPOUND SYRUP OF GLYCEROPHOSPHATES

COMPOUND SYRUP OF HYPOPHOSPHITES

EASTON'S SYRUP

EXTRACT OF MALT WITH COD-LIVER OIL

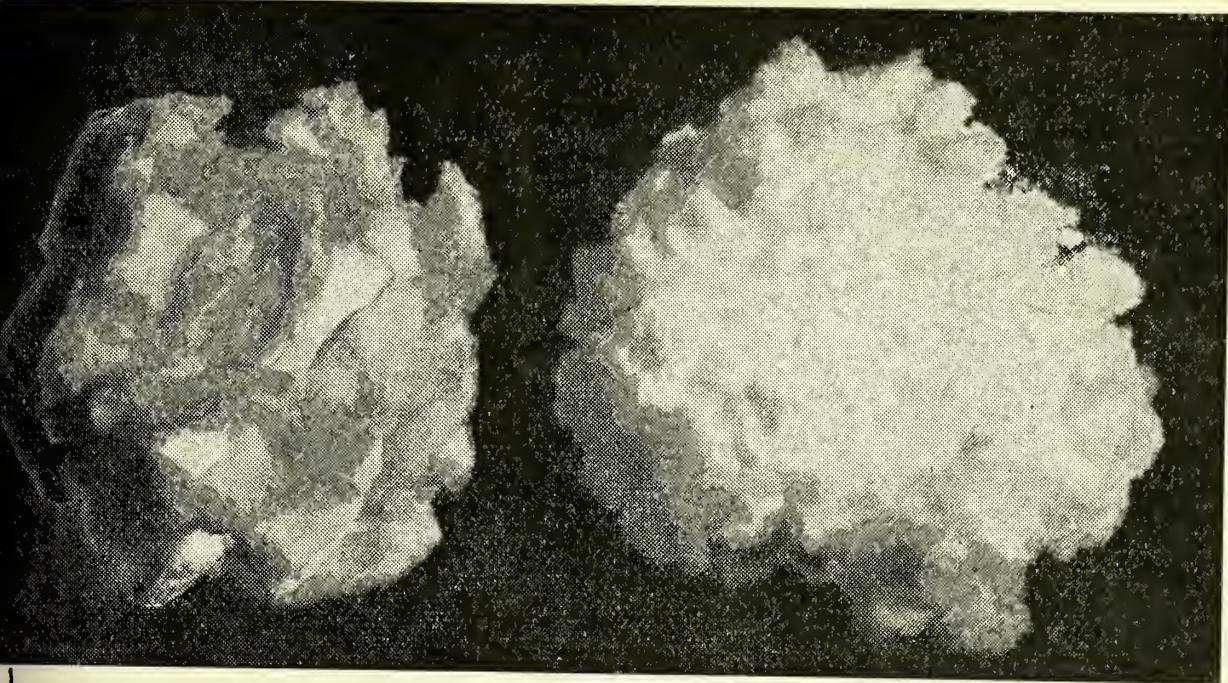
HALIBUT-LIVER OIL—*in bottles or capsules*

NERVE TONIC ELIXIR

THE NAME ALONE  IS A GUARANTEE

## WRIGHT LAYMAN & UMNEY LTD

SOUTHWARK STREET LONDON, S.E.1. HOP 4021 (10 lines)



## Which is softer?

On the left, ordinary soluble sanitary towel filling. On the right the exclusive Modess 'fluffed' filling. You can see at a glance Modess is softer, that it will not chafe, and gives the greatest possible degree of comfort in use. Add to this the other special Modess features—rounded streamlined ends, moisture-repellant backing marked by the blue thread and *exceptional degree of absorbency*,

and you will understand why Modess towels are preferred for comfort and efficiency in almost every country in the world. Modess Sanitary Towels, made by the largest surgical dressing manufacturers in the world, are uniformly excellent. Whether soluble or cotton wool, they conform to the highest surgical standard of hygiene. In recommending them to your customers you are sure of building goodwill.

## Modess

The best Sanitary Towel at any price

*softer · safer · streamlined*

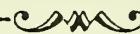
SOLUBLE OR COTTON WOOL SANITARY TOWELS MADE BY  
Johnson & Johnson (GT. BRITAIN) LTD.

A new combination

# C O D I S

REGD.

*soluble aspirin with  
codeine phosphate and phenacetin*



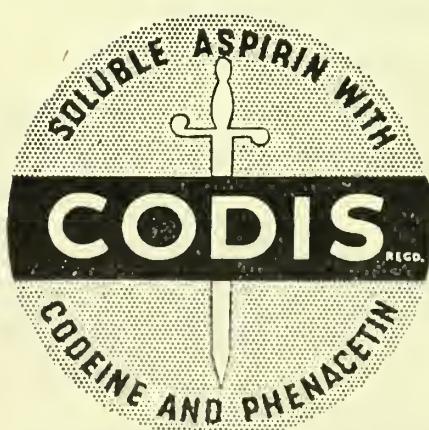
Codis presents a familiar grouping of analgesic drugs ; aspirin, phenacetin, codeine phosphate; with an important advantage. The "aspirin" in Codis is rendered soluble, as in "Solprin".

Placed, uncrushed, in water, a Codis tablet disperses in a matter of seconds to form a solution of calcium aspirin and codeine phosphate with finely suspended phenacetin. The chance of irritation of the gastric mucosa by undissolved particles of aspirin is thus minimised.

Codis is recommended for all those conditions for which Tab. Codein. Co. B.P. would be prescribed. It has the added advantages of greater ease of administration and far less likelihood of aspirin intolerance, while the rapid absorption of the soluble aspirin promotes prompt relief.

#### C O M P O S I T I O N

Each Codis tablet contains : Acid. Acetyl-salicyl. B.P. 4 grs., Phenacet B.P. 4 grs. Codein Phosph. B.P. 0.125 grs., Calc. Carb. B.P. 1.2 grs., Acid Cit. B.P. (Exsic.) 0.4 grs., Excip. ad. 11.45 grs.



Codis is not advertised to the public.

DISPENSING PACKS : (Purchase Tax free)  
Hospital bottles of 400 tablets 18/6 each.  
Prescription box of 300 tablets in distinctive gold foils of 6 tablets each 16/6 per box.

PUBLIC SIZES. Packs of 20 tablets 2/9 each including Purchase Tax.



# Best Ever!

was the general view of last year's advertising. This year's campaign runs on similar lines, but in addition to the great weight of Press, Transport and Filmlet advertising we are now including regular programmes from

## Radio Luxembourg

### Standard Bonus Parcels

<b>PARCEL</b> 39 x 25 Capsules @ 2/6 Retail		
Total retail value	£4 17 6	
E Cost of parcel	£3 0 9	
<b>PARCEL</b> 26 x 5 ml. Drops @ 2/- Retail		
Total retail value	£2 12 0	
F Cost of parcel	£1 12 5	
<b>PARCEL</b> 13 x 15 ml. Drops @ 5/- Retail		
Total retail value	£3 5 0	
G Cost of parcel	£2 0 6	
<b>PARCEL</b> 13 x 30 ml. Drops @ 9/- Retail		
Total retail value	£5 17 0	
J Cost of parcel	£3 12 11	
<b>PARCEL</b> 13 x 100 Capsules @ 8/6 Retail		
Total retail value	£5 10 6	
L Cost of parcel	£3 8 10	
<b>PARCEL</b> 13 x 15 ml. Infants Emulsion @ 3/6 Retail		
Total retail value	£2 5 6	
P Cost of parcel	£1 8 4	

Full details are being mailed to all chemists in September, with bonus terms, showcards (new novelties) and dressed window displays to suit your convenience.

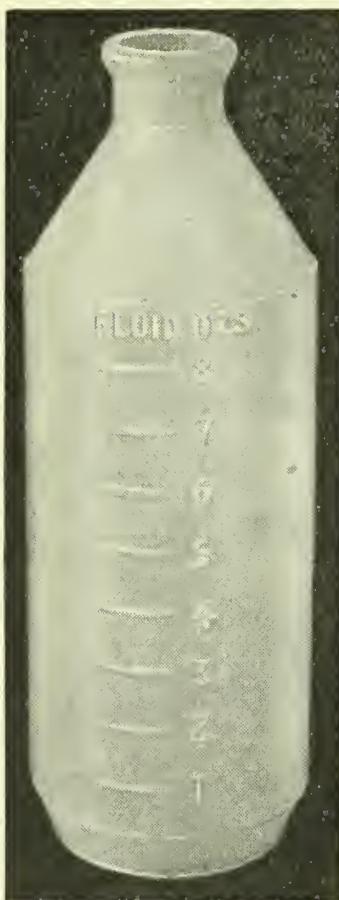
## Order Now

Bonus in kind can only be allowed when one or more of the standard parcels E, F, G, J, L and P are ordered. Apart from the bonus parcels, other quantities of Crookes Halibut Oil and Capsules and Halibut Oil Emulsion can always be supplied at normal discount.



P.A.T.A.

# CROOKES HALIBUT OIL



# "SKYLON"

## POLYTHENE FEEDING BOTTLE

**P.A.T.A.**

The new modern lightweight feeding bottle that no mother should be without. Indispensable at all times. Made of Pure Polythene. Safe and

- UNBREAKABLE
- HYGIENIC
- TASTELESS
- ODOURLESS

### UNAFFECTED BY FOODSTUFFS

All standard teats fit the neck. Will keep contents warm longer than any glass bottle



Also Dual-Purpose Feeder complete with "Skylon" Brand teat combining all the benefits of feeding bottle with the advantage of a food measure.

Obtainable from your usual Wholesaler

Manufactured by :

**FIBRENYLE LTD.**

157 DUKES RD., LONDON, W.  
Telephone: ACORN 50

Sleep sweeter-  
**Bourn-vita**

Made by Cadburys



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• • • • • • • • •

**Popular choice  
for vitamin  
supplementation**

• • • • • • • • •

Even in a community in which diet is adequate there are times when supplementation is desirable. At such times Multivite's convenient presentation of vitamins A, B<sub>1</sub>, C & D<sub>2</sub> in high concentration and its pleasant flavour make a strong appeal.

**MULTIVITE**  
TRADE MARK

PRICE: Bottle of 50 pellets  
PHARMACISTS 2/4 RETAIL 3/6

MLT/T/4

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# Chlorophyll – Cuticura Cuticura – Chlorophyll

For many years past CHLOROPHYLL — nature's own skin healing element — has been skilfully blended with fine medicaments and rich oils in the high quality, super-fatted

## CUTICURA SOAPS CUTICURA OINTMENTS CUTICURA SHAVING STICKS

This is one of the many important reasons why an ever-growing circle of discriminating people always insist upon these soothing, protective, fragrant Preparations for everyday care of the skin. Display these firm family favourites, and make sure that this steady all-the-year-round repeat business comes to you!

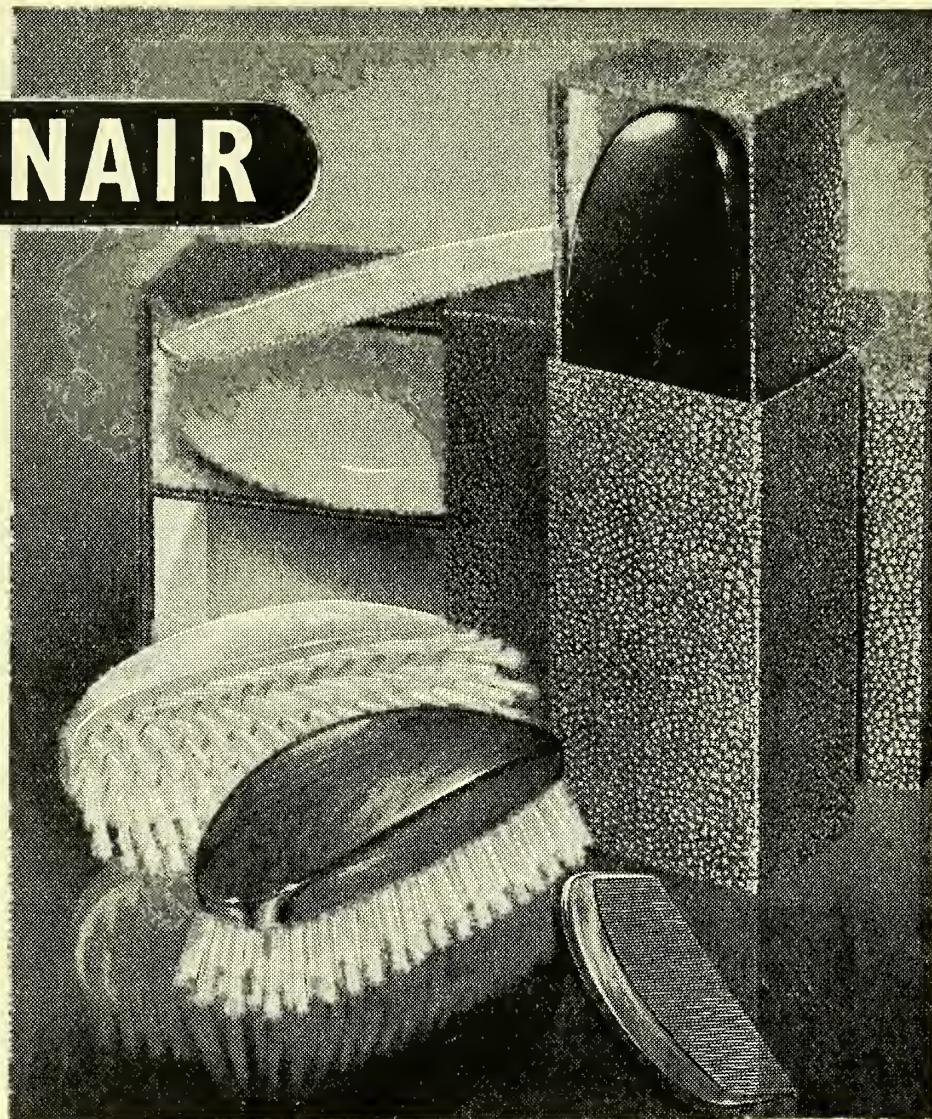
Hughes

**DEBONAIR**

for

Christmas

presents



38/90

**D**

EBONAIR Brushes for fathers and sons maintain

the high standard of design, quality and finish typical of the

whole HUGHES range of personal brushes. In imitation ivory,

ebony, and tortoiseshell. Pure bristle or nylon. Deep

action brushing. Shagreen type container. Retail: nylon 9/9 each, pairs 17/9.

Pure bristle 18/9 each, pairs 36/-. Combs 6d.

Hughes

**BRUSHES LTD.**

240/242 BATH ROAD, SLCUGH, BUCKS. PHONE: SLOUGH 23218

# COX OF BRIGHTON

An organisation abreast of the latest mechanical and scientific developments

## MANUFACTURING and PACKAGING PILLS and TABLETS

ARTHUR H. COX & CO. LTD., BRIGHTON 7

*Manufacturing Chemists Since 1839*

## AMAZING SUCCESS *of New Line!*

In the matter of a few weeks the Racasan Air Freshener has caught on with the chemist and public. It is attractively packed in its own individual hanging carton. Available in 6 perfumes—Heather, Lavender, Lilac, Narcissus, Pine, Violet. Nationally advertised.

Approved by Good Housekeeping Institute.

**RACASAN**  
AIR FRESHENER  
AND MOTH REPELLENT  
Good discounts. 3 Dozen Assorted in Colourful Counter Display Box. Retail Price 1/3d. each. Ask your wholesaler or write for further details TODAY.  
**RACASAN LIMITED**  
ELLESMORE PORT, CHESHIRE  
Also at London and Liverpool

AVAILABLE  
IN SIX  
PERFUMES





*In the treatment  
of the common cold*

## 'SULFEX'

**provides relief from nasal congestion and prophylaxis against secondary invading organisms.**

'Sulfex' administered at the first sign of a cold will often abort the condition entirely, and even in the acute stages marked symptomatic relief can be obtained and the onset of complications, such as sinusitis, etc., avoided.

If you hold a representative stock of 'Sulfex' you can dispense your customers' prescriptions without delay.

'Sulfex' is issued, for prescription only, in 1-oz. bottles with dropper. Trade price 40/6 per dozen (exempt from P.T.): retail price 4/6 each.

**'SULFEX'**

*a Schedule IV preparation*

**STAND 79**

LONDON  
MEDICAL  
EXHIBITION

**ENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5**  
for Smith Kline & French International Co., owner of the trade mark 'Sulfex'



# \***64 Million WOMEN READERS**

## **will see ZAC adverts**

***in next 3 months alone***

The " Biggest-Ever " advertising campaign for Zac Baby Products commences forthwith. National Sunday, Daily, Weekly and Monthly publications with a total readership of 64,809,000 Women Readers, will carry powerful, sales-compelling Zac Adverts during the next 3 months alone. See selection below.

The new 1/3 size Zac Baby Cream, as well as the 1/9 and 2/9 sizes, will be featured in these advertisements which cover every city, town, village and hamlet in the Kingdom. See geographical distribution list on right. INCREASED SALES ARE CERTAIN. Secure YOUR FREE DOZEN 1/3 size Zac Baby Cream by posting the Special Order Card NOW before this generous offer closes.

**★ Based on the 1952 Hulton Readership Survey, recently published.**

*Where the Advertisements will appear.*



**How is your Stock?**

HOUGH, HOSEASON & CO. LTD., CHAPEL STREET,

Of the 64 Million Women Readers of Publication carrying the Zac Advert

**23,809,000  
readers live in**

GREATER LONDON  
KENT  
SURREY  
SUSSEX  
BEDFORDSHIRE  
CAMBRIDGESHIRE  
ELY  
ESSEX  
HERTFORDSHIRE  
HUNTINGDONSHIRE  
NORFOLK  
SUFFOLK  
BERKSHIRE  
BUCKINGHAMSHIRE  
DORSET  
HAMPSHIRE  
ISLE OF WIGHT  
OXFORDSHIRE

**7,504,000  
readers live in**

CORNWALL  
DEVONSHIRE  
GLOUCESTERSHIRE  
SOMERSETSHIRE  
WILTSHIRE  
CAERNARVONSHIRE  
DENBIGHSHIRE  
FLINTSHIRE  
MERIONETHSHIRE  
MONTGOMERYSHIRE  
CARDIGANSHIRE  
CARMARTHENSHIRE  
PEMBROKESHIRE  
RADNORSHIRE  
MONMOUTHSHIRE

**9,503,000  
readers live in**

DERBYSHIRE (EX HIGH PEAK)  
LEICESTERSHIRE  
LINCOLNSHIRE  
NORTHAMPTONSHIRE  
NOTTINGHAMSHIRE  
PETERBOROUGH  
RUTLANDSHIRE  
HEREFORDSHIRE  
SHROPSHIRE  
STAFFORDSHIRE  
WARWICKSHIRE  
WORCESTERSHIRE

**6,943,000  
readers live in**

CHESHIRE  
LANCASHIRE  
DERBYSHIRE (HIGH PEAK)

**9,369,000  
readers live in**

NORTH, EAST AND WEST RIDINGS OF YORKSHIRE  
CUMBERLAND  
DURHAM  
NORTHUMBERLAND  
WESTMORLAND

**7,681,000  
readers live in**

SCOTLAND, COVERING ALL SCOTTISH COUNTIES AND ISLANDS.

MANCHESTER

*Now available . . .*

# 'DISTAVONE'

brand

Procaine Penicillin G  
Potassium Penicillin G  
Dihydrostreptomycin Sulphate

## A mixed antibiotic preparation with special applications

Not infrequently, cases of advanced infection or of mixed infection require immediate treatment and to await proper bacteriological examination may be quite impracticable or inadvisable. In such cases, and also in prophylaxis in certain operative procedures, it is often the practice to administer separate injections of penicillin and dihydrostreptomycin. Moreover, where the causative organisms, because they are deep-seated, cannot be readily identified, a mixture of these two antibiotics is often used.

For convenience in such circumstances, 'Distavone,' consisting of a balanced mixture of penicillin and dihydrostreptomycin in a highly purified form, has been made available.

Each single-dose injection-type vial contains 300,000 units procaine penicillin G, 100,000 units potassium penicillin G and 500,000 units (equivalent to 0.5 gramme pure base) dihydrostreptomycin sulphate. Boxes of 5 vials.

Distributed by

ALLEN & HANBURYS LTD.

BRITISH DRUG HOUSES LTD.

BURROUGHS WELLCOME & CO.

EVANS MEDICAL SUPPLIES LTD.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

Manufactured by

THE DISTILLERS COMPANY  
(BIOCHEMICALS) LIMITED

SPEKE

LIVERPOOL

owners of the trade mark 'Distavone'

**Of special interest to chemists  
... use your own pack and save P.T.**

### PACK YOUR OWN LANOLIN SHAMPOO

And earn those extra profits. Note:- Your own pack not subject to P.T.

- We can supply in bulk from 1 cwt. upwards, our Lanolin Shampoo

— Made exclusively from the famous "Golden Dawn" Anhydros B.P. Lanolin

*Full details  
and samples from:—*

# NEW ERA C

Mount Felix, Walton-on-Thames, Surrey

Telephone: Walton-on-Thames 2451/2

Telegrams: Rosace, Surrey

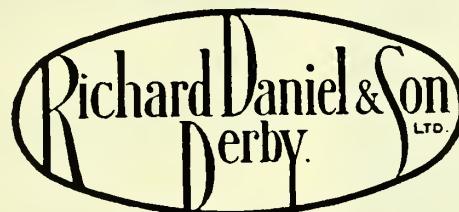


# PENICILLIN PREPARATIONS

LOZENGES • TABLETS • OINTMENTS • Etc.

*Aids to Dispensing Outfits of Creams and Drops*

MANUFACTURED BY



DISTRIBUTED BY

**MOORE MEDICINAL PRODUCTS LTD**

I, QUEENS TERRACE  
ABERDEEN. Tel: 27233

64 GLOUCESTER PLACE  
LONDON, W.I. Tel: WELbeck 5718/9

*Detailed Price List on Request*

“NIAGARA” BLACKCURRANT SYRUP  
SYRUP OF BLACKCURRANT B.P.C.  
SYRUP OF RASPBERRY B.P.C.  
6 to 1 CONCENTRATED RASPBERRY JUICE

Enquiries to:—

**BARNETT & FOSTER LIMITED**

Established in the Year 1858

**NIAGARA WORKS, EAGLE WHARF ROAD, LONDON, N.I**

Telephone: CLissold 7132

# *glucose important, announcement*



## DEXTROSOL

BRAND

tablets are now  
distributed nationally !

### Important because ...

'Dextrosol' Tablets are made of dextrose, which is glucose in its purest form. Deliciously flavoured, they are a source of immediately available energy — "vest-pocket" energy.

### Important because ...

The popularity and value of 'Dextrosol' Tablets have been *proved*. In test areas over the past few months, they have shown themselves to be a really quick-selling line. Packed in attractive counter display containers carrying the instant energy story, they really do *sell*.

**SPECIAL NOTE**—'Dextrosol' Tablets were accepted by the British Olympic Association for use by the 1952 Olympic Team.

### Important because ...

On each 10½d. packet of 'Dextrosol' Tablets you make 33½% profit! Remember — it has been *proved* that 'Dextrosol' Tablets, prominently displayed, show a steady, speedy turnover. Everybody feels they could do with more energy — they read the 'Dextrosol' story — and there's another sale!

# Introduce Dextrosol Tablets NOW!-

ORDER THROUGH YOUR USUAL CHANNELS

## DEXTROSOL

BRAND

glucose products

Made by the Pharmaceutical Division of Corn Products Company Limited

A member of the Brown & Polson Group

WELLINGTON HOUSE, 125/130 STRAND, LONDON, W.C.2



# URGENT-ORDER NOW!



## FOUR SEASONS PARTY PACK

including PARTY NOVELTIES . . . 4 DECORATIVE GLASSES . . . FANCY BOTTLE of Four Seasons Orange Squash, Lemon Squash, Grapefruit Squash, Pineapple Crush or Ginger Wine (Non-Alcoholic) . . . IN THIS COLOURFUL INDIVIDUAL DISPLAY PACK, packed 1 dozen sets per outer and retailing at only 4/11

BOOK . . .

. at these AMAZINGLY LOW PRICES !

DO WONDER THE TERRIFIC DEMAND for the new FOUR SEASONS NOVELTY PARTY PACK and CARAFE has us worried ! Orders are simply pouring 'in ! We don't want to disappoint a single customer BUT . . . for the sake of the goodwill they demand—and the generous, easy-to-get profit they bring in—let us have your Christmas order for these sensational self-sellers NOW !

*There's extra goodwill and extra good profit in this*  
**FOUR SEASONS party pack**

**HAVE YOU HAD  
YOUR CHRISTMAS  
QUOTA YET ?**

## FOUR SEASONS CARAFE

You'll have a DOUBLE ATTRACTION when you display this delightfully different, enticingly-priced CARAFE, complete with glass stopper and filled as in Party Pack. Packed 1 dozen per outer, retailing at ONLY

**2/11**



Send your orders **TODAY** while stocks are still available to :  
**THE APOLLINARIS COMPANY LIMITED, Mason's Avenue, Harrow, Middlesex**

PLEASE YOUR CUSTOMERS...  
PLEASE YOURSELF...

with

SILCOT



★The current  
Silcot showcard

#### WOMEN LIKE THEM

Large numbers of women always buy Silcot because they appreciate the quality and comfort of this cotton-wool towel. A towel which makes satisfied users also makes regular customers.

#### SELL THEM TO OTHERS

If you have customers who simply ask for "A packet of towels," you are always wise in giving them Silcot. You are selling them a reliable towel which will give them comfort and safety at a reasonable price . . . and bring them back.

#### USER'S COMMENT

This comment was made by a Silcot user in a recent letter:

" . . . I am pleased to inform you that Silcot towels are of a quality far above any other make I have tried."

—Mrs. B., Hull  
28th Sept., 1952

#### ADVERTISED, TOO

Silcot is one of the most extensively advertised towels on the market. Advertisements appear all the time in the leading magazines. Millions of women read them. Showcards are also available for shop display.

SILCOT

Cotton-Wool Sanitary Towels

MACDONALD & SON LTD., HOPE MILLS, POLLARD STREET, MANCHESTER



## Muffler Time

is 'Kepler' time! Mothers realise how valuable 'Kepler' is during the winter in providing extra nourishment, promoting sturdy growth and building up defence against infection. On their guard against the severity and possible epidemics of the coming months, they will be asking you for 'Kepler'—not only for the children, but for the adults in the family too! If your stock of 'Kepler' is not large enough to deal with this winter's demand, order now.

# 'KEPLER'

BRAND

COD LIVER OIL WITH MALT EXTRACT

*Protects the bodies it builds*



BURROUGHS WELLCOME &amp; CO. (THE WELLCOME FOUNDATION LTD.), LONDON, N.W.1

## Grippy's success secret



There is even more to Grippy's success than the beauty, utility and novelty of the brush itself.

Grippy is the only nailbrush ever advertised substantially and consistently on a national scale. Grippy is beautifully packed and regularly supported by first-class displays. Grippy gives your customer more brush for her money. At the same time, Grippy also gives you a bigger cash margin.

So keep good stocks of Grippy — you'll find it an easy-selling, profitable line!

**GRIPPY**  
*a nailbrush  
with character*

MADE BY ADDIS LTD.  
OF HERTFORD

# Staffallen's



# POWDERED DRUGS

LYCYRRHIZA  
HUBARB  
PECAC.  
LOES  
GITALIS  
ELLADONNA  
UX VOMICA  
c., etc.



WORLD ALLEN & SONS LTD., WHARF ROAD, LONDON, N.I. CLERKENWELL 1000

TAS/AL 405a



Maximum efficacy...  
minimum risk

★ ★ ★  
**'SULPHATRIAD'**  
trade mark  
**COMPOUND SULPHONAMIDES**

'SULPHATRIAD' is supplied as follows:

TABLETS	Containers of	Price
25	× 0.50 grammes.....	4s. 6d.
100	× 0.50 grammes.....	17s. 6d.
500	× 0.50 grammes.....	85s. 0d.

SUSPENSION	Containers of	
4 fl. oz.....		7s. 6d.
40 fl. oz.....		68s. 0d.
(each tablet or fluid drachm of suspension contains sulphathiazole 0.185 gramme, sulphadiazine 0.185 gramme, sulphamerazine 0.130 gramme).		

This combination of three of the most active sulphonamides — sulphathiazole, sulphadiazine and sulphamerazine, provides a method of sulphonamide therapy which is effective and free from risk. Whereas the bacteriostatic activities of the constituents are additive, the risk of crystalluria is only equivalent to that of any single constituent.

manufactured by



MAY & BAKER LTD

distributors

MA

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD DAGENHAM

*Are you stocking the*

# **ANDREX**

## **DOUBLE-PACK?**



**"AH! ANDREX  
—and what a difference"**

Andrex Double-pack retail 2/5 ea. trade 2½ doz.

Andrex Single-pack retail 1/3 ea. trade 11/1 doz.

ANDREX national advertising continues to send sales soaring! The public demands the Double-pack—it saves them a penny but gives you the same BIGGER profit margin. Order now through your usual wholesaler.

**BETTER MARGINS AND BRITISH MADE**

ST. ANDREW MILLS LTD., LONDON. E.17  
MAKERS OF ANDREX TOILET AND HANDKERCHIEF TISSUE

A selection  
from the range of



## ETHICAL PRODUCTS

all supported by intensive  
medical propaganda and  
in steady demand

### 'ABECEDIN'

Vitamins A.B.C.D. (Tablets and Emulsion)

### 'CAAPI'

Anti-Coryza Tablets

### 'DYSPISTOL'

for Dysmenorrhœa

### 'FORTIOR'

Vitamins B & C with Minerals

### 'MINACEDIN'

Vitamins A.B.C.D. with Minerals

### 'RAMINAL'

for Hyperpiesis

### 'SEDONAN'

for Otitis Media

### 'SOROSIL'

Dermal Ointment

H. R. NAPP Limited, 3 & 4, Clements Inn, London, W.C.2



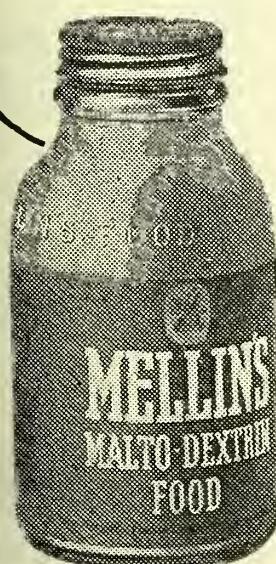
## Can You Satisfy This Customer?

She'll be coming into your shop and asking for a bottle of MELLIN'S FOOD. She'll have seen MELLIN'S advertised in her daily paper, in the *Radio Times* or her favourite magazine.

She'll be wanting MELLIN'S to build herself up after an illness . . . or for her husband who suffers from digestive upsets . . . or for her baby who can't take ordinary infants' foods.

She'll be back soon for another bottle of MELLIN'S . . . and another — that's if you've been able to meet her original request.

Make sure you can satisfy her, and the many customers like her who will be brought to your shop by powerful MELLIN'S advertising. Make sure you have adequate stocks of MELLIN'S MALTO-DEXTRIN FOOD, selling at 3/6 a large bottle. (*Obtainable from all leading distributors*).



# MELLIN'S

## MALTO-DEXTRIN FOOD

Inquiries to : MELLIN'S FOOD LTD., (DEPT. 14), STAFFORDSHIRE STREET, LONDON, S.E.15. Tel: NEW Cross 3486  
Makers of Infants' and Invalid Food for over 80 Years.

**GLANOID**

# AMISYN TABLETS

combining

**ACETOMENAPHTHONE**

and

**NICOTINAMIDE**

for

**THE TREATMENT OF  
CHILBLAINS**

**EXEMPT FROM  
PURCHASE TAX**

THE ARMOUR LABORATORIES  
(ARMOUR & COMPANY LTD.)

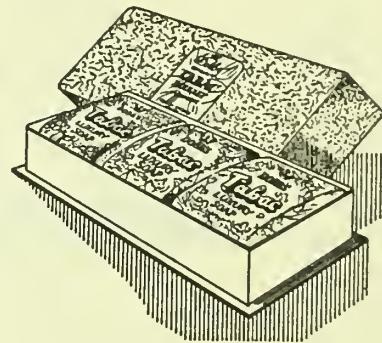
LINDSEY STREET LONDON E.C.1

Telephone: Clerkenwell 9011  
Telegrams: "Armosata-Phone," London

*Dobb's*  
**TABAC**

PERFUME  
TOILET-ESSENCE  
LUXURY SOAP

*Price List and  
samples on request.  
Special Bonus-terms.*



*From your  
wholesaler  
or direct from  
the Manu-  
facturers:*

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OF LONDON  
Telephone:  
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192 SEVEN SISTERS ROAD, LONDON, N. 13

**BIG SALES** from this  
**NEW BOTTLE**



This first class selling line now has the additional appeal of the new safety shape bottle. The strong advertising campaign in the National and Provincial press and magazines with the National Poster campaign ensures big sales—stock up NOW with:

**DRUMMER PINE  
DISINFECTANT**

Made by :  
WM. EDGE & SONS LTD., BOLTON

# CARNEGIE

*Manufacturing Chemists*

'CARNEBROS BRAND'

AESCULIN	HYOSCINE HYDROBROMIDE
ADRENALINE	IODIDES
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AMIDOPYRIN	KHELLIN
ATROPINE & SALTS	LITHIUM SALTS
BARBITURATES	P.A.S.
BISMUTH SALTS	PHENAZONE
BROMISOVALERYLUREA	PODOPHYLLIN RESIN
CAFFEINE & SALTS	QUININE & SALTS
CHLORAL HYDRATE	SALICYLATES
CHRYSAROBIN	SANTONIN
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**CARNEGIE BROTHERS (1949) LTD**

ELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

TELEGRAMS: 'CARNEBROS' WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

A 'CARNEGIES OF WELWYN' COMPANY

**Greasy hands come clean**



## Innox-a Barrier Creams

For greasy or oily jobs, painting or varnishing, recommend INNOXA 51. This protects the hands with an invisible film enabling grease, grime or paint to be quickly washed off. Thus the use of harmful solvents and abrasives to clean the hands is obviated.

For wet chores recommend INNOXA 71.

*From (chemist) wholesalers. Trade terms: 22/6 dozen tubes, plus 33½% purchase tax. Retail price: 3/- a tube, including purchase tax.*

Small cut-out display and literature available on request.



### INNOXA 71 FOR WET WORK

Affords complete protection for the hands against "wet chores" even though the hands may be hours in water.

### INNOXA 51 FOR DRY WORK

Dirt, grease, paint,\* oil and all sorts of grime can be removed instantly by just rinsing the hands under the tap.

\* To remove paint, varnish, lacquers, etc., recommend the special technique given on the tu-

*Introducing*

# 'LETHIDRONE'

TRADE MARK

## The Morphine Antidote

'Lethidrone' brand N-Allylnormorphine Hydrobromide is an antagonist of morphine, pethidine, amidone ('Physeptone') and related analogues. Extensive clinical investigations in the United States have led to published reports providing conclusive evidence of its value. Animal tests carried out in this country have confirmed its efficacy.

'Lethidrone' acts centrally—apparently by receptor competition—and very quickly, effecting a recovery often in a matter of seconds. It has been used successfully in clinical cases of morphine and amidone overdosage, resulting in dramatic respiratory and circulatory improvement without significant loss of sedation. The recommended dose of 'Lethidrone' is 10-40 mgm.

'Lethidrone' brand Injection of N-Allylnormorphine Hydrobromide is available in boxes of 6 ampoules, each containing 10 mgm. in 1 c.c. Further information may be obtained from 183-193, Euston Road, London, N.W.1.



**BURROUGHS WELLCOME & CO., LONDON**

(The Wellcome Foundation Ltd.)

ASSOCIATED HOUSES:

NEW YORK • MONTREAL • SYDNEY • CAPE TOWN • BOMBAY • BUENOS AIRES • CAIRO • DUBLIN

New sublingual/sublabial tablets

# SUBLINGS

*for the administration of  
Methyltestosterone or DOCA*

In Sublings the active principles are incorporated in an inert water-soluble, wax base which ensures that the tablets are readily dissolved and the hormone totally absorbed. Their smoothness of texture eliminates oral soreness and their agreeable flavour encourages retention in the mouth.

- COMPLETE HORMONE ABSORPTION
- IDEAL SURFACE AREA
- ECONOMICAL
- PLEASANT

**SUBLINGS**  
**METHYLTESTOSTERONE**

Tablets containing 5, 10 or 25 mg. methyltestosterone ; supplied in bottles of 25, 100, 250, 500 and 1,000.

**SUBLINGS**  
**DEOXYCORTONE ACETATE (DOCA)**

Tablets containing 1 mg. deoxycortone acetate ; supplied in bottles of 25, 100, 250, 500 and 1,000.

Price List on request

**ORGANON LABORATORIES LTD**  
BRETTENHAM HOUSE, LANCASTER PLACE, W.C.  
Tel. : TEMple Bar 6785-6-7, 0251-2      Grams : Menformon, Rand, Lond.

# Lives of Quiet Desperation

Anxiety neurosis can take many forms and to the experienced practitioner diagnosis is not so difficult. Treatment is the real problem.

'Diesed', which is a combination of sedative ('Luminal' 32 mgm.) and euphoriant (methyl amphetamine 2.5 mgm.), helps by lessening emotional tension and improving the mood.



# DIESED

TRADE MARK

Packings: 25, 100, 250  
and 1,000 tablets (S.4)

BAYER

PRODUCTS LIMITED, AFRICA HOUSE, KINGSWAY, LONDON, W.C.2

# STANDARD SYNTHETICS L I M I T E D

*Actual distillers of Essential Oils*

*Manufacturers of Aromatics, Perfume  
Bases and Flavours.*

*We specialise in Cinnamon Bark Oil,  
Juniper Berry Oil, Winter-green Oil, Eucalyptol,  
French Lavender Oil, Terpeneless Lemon Oil, Rose  
Perfumes, etc.*

**76 Glenthamp Rd., Barnes  
London - - S.W.13**

Telephone : -Riverside 3616

## BARIUM SULPHATE B.P.

Bariform Brand Barium Sulphate for X-ray diagnoses is a fine white powder conforming to the B.P.

Designed for the preparation of barium meals, it has excellent suspensibility and extremely fine particle size.

It is also available as a rapidly dispersible paste.



## HYDROGEN PEROXIDE

10 and 20 volumes in bottles.  
A wide range of packs and labels available.

## LAPORTE

LAPORTE CHEMICALS LTD., LUTON.  
Telephone: Luton 4390 Telegrams: Laporte Luton.

Ammonium Carbonate  
Chalk—Precipitated and Prepared  
Cresylic Acid  
Coal Tar Disinfectants  
Emulsifiers  
Magnesium Carbonate (Pond.)  
Synthetic Detergents  
Naphthaline  
Toluene, Xylene  
Zinc Oxide

**DUNN BROTHERS'**  
SUCCRS. LTD.  
I BOOTH STREET, MANCHESTER  
Established 75 years

## CRUDE DRUGS

ESSENTIAL  
GUMS      OILS      WAXES

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BOTANICAL DRUG AND SPICE IMPORTERS  
DRUG AND SPICE MILLERS

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 PILLS & TABLETS.  
 DANGEROUS DRUGS  
 DRUGS & GALENICALS  
 ETHICAL PROPRIETARIES

**SMITH & HILL**  
 (Chemists) Ltd.  
**SIDNEY ST., SHEFFIELD, I**  
 Phone : 24321

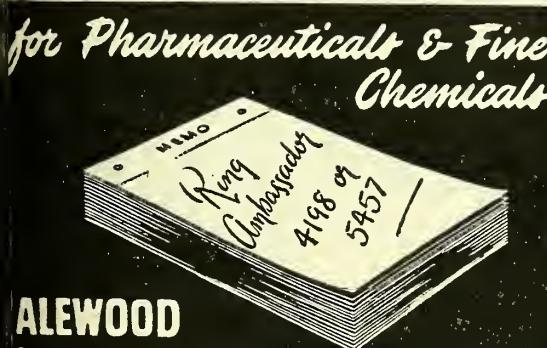
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# IPECACUANHA B.P. JABORANDI PAPAIN BALSAM TOLU

*Genuine Imported*

and all other  
 Botanicals, Gums, Waxes,  
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 Telephone : London Wall 4882, 6585, 6586  
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 Branches in New York and Hamburg



**ALEWOOD  
 CHEMICALS LTD.**

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# A S P I R I N S

HOME AND EXPORT

7½ & 5 grain      Packed or Bulk  
**HARRINGTONS**  
 London Office: 2 BERRIDGE Grn., EDGWARE, LONDON

**BLYTON ASTLEY & CO., LTD.**

Makers of "Doctor's Catarrh Pastilles", "I.G.T. Safeguards" • "Menthells" • "Digestells" and a variety of Pastilles and Lozenges offered in bulk or as "own name" packs.

Eagle Laboratories  
 LOWER BROUGHTON, SALFORD 7, LANCS.

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Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—**W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA**

80/85% B.P.

Oil Euc. Dives 40/45%

Oil Euc. Citriodora

70/75% B.P.

Piperitone 90/95%

Oil Euc. Phellandra

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UNIFORMITY OF QUALITY . . . CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3**

Phone : MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams : WYFIELD LONDON

# In confidence...

Even in these enlightened days, guidance on methods of family planning can do much to remove anxiety and promote a patient's mental and physical well-being. Gynomin entirely fulfils the requirements of a modern contraceptive and may be accepted with confidence.

- Spermicidally efficient
- Clean in application — non-greasy
- Harmless to Health
- Keeps perfectly in all climates

## GYNOMIN

TRADE MARK

*The scientifically balanced antiseptic and deodorant contraceptive — in tablet form*

*Order from your Wholesaler.*

*Medical literature available to pharmacists on request.*

**COATES &**

PYRAMID WORKS

**COOPER LTD**

WEST DRAYTON

MIDDLESEX

'Health Insurance' demands



OBTAIENABLE  
ONLY FROM  
CHEMISTS

ALSO IN  
INTERLEAVED  
SELF CONTAINED  
CARTON PACKS

**HAROLD WESLEY LTD**  
**HARLEY MILLS**  
**LONDON N.W.10**



Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

**SPECIAL QUANTITY DISCOUNTS  
MEAN EXTRA PROFITS.**

3 doz. tubes at 31/6 per doz. less 5%

6 doz. " " " " " " 7½%

12 doz. " " " " " " 12½%

Retail price 3/6 per tube of 12 tablets.

## TUBULAR BANDAGES

IN ALL WIDTHS

MEDLOCK MANUFACTURING CO. LTD.

Medlock Mills, Oldham  
Telephone: Main 2948

## FENOLIN FLUID

P.A.T.A.

for WHOOPING COUGH  
for use with ELDON VAPORISERS

**HALL FORSTER & CO. LTD.**  
NEWCASTLE UPON TYNE

# PLANNED TO SELL MORE

**YOU** can sell more, quickly and simply, by installing Shomore Equipment. Start with a single Shomore unit and add others as your profits grow.



## 'SHOMORE' DISPLAY

WRITE NOW FOR FREE LITERATURE

PARNALL & SONS LIMITED • LODGE CAUSEWAY • FISHPONDS • BRISTOL

# ALUMINIUM

# HYDROXIDE

# B.P.C.

ALUMINIUM HYDROXIDE TO THE  
REQUIREMENTS OF THE B.P.C....

Spence Aluminium Hydroxide B.P.C. is available in the normal gel and dried gel forms. A semi-granular grade is available specially for tabletting.

# Chemicals for Industry

PETER SPENCE & SONS LTD • WIDNES • LANCS • R.P.5025



**Chemists  
all over the  
country**

**Cash in on Coloral**



**Coloral** — the new French Hair Colour rinse, has achieved new sales records every month since its introduction to this country last June. It is now, beyond question, an *established success* and tens of thousands of women are *regular users*. If you are not stocking COLORAL you are missing a quick selling line which will bring you *ever increasing profits*. The attractive cards, each carrying two rinses, have only to be shown to sell. Get a stock from your wholesaler NOW!

# COLORAL

*Liquid*

## HAIR COLOUR-RINSE

Regularly advertised in the leading Women's Magazines and on London's Underground.

Made in six shades—Burnished Gold, Auburn, Deep Brunette, Hazel Brown, Velvet Brown, Steel Blue.

*In attractive display outers each containing two dozen cards.*

Retail Price :

1/3 per card of 2 Rinses

TRADE PRICE : 6/- per dozen cards (plus 100% tax), in boxes of two dozen cards of any one shade or in a fixed assortment of two dozen.

Product of L'Oreal, Paris.

Packed and Distributed in Great Britain by

GOLDEN LIMITED • 2/4 DEAN STREET • LONDON • W.I GERMARD 4720

# NATIONAL

White Flint Glass Containers  
of Quality



DISPENSING BOTTLES  
1-oz.—20-oz.

RIBBED OVALS  
 $\frac{1}{2}$ -oz.—16-oz.

VIALS  
 $\frac{1}{2}$ -oz.—3-oz.

BOW-FRONT PANELS  
1-oz.—8-oz.

TABLET BOTTLES  
Nos. 1—7½ sizes

ROUND SCREW JARS  
Tall and Semi-Squat

PANELLED FLATS  
1-oz.—4-oz.

NATIONAL GLASS WORKS (YORK) LTD.  
Fishergate, YORK 105 Hatton Garden LONDON E.C.1  
Te. YORK 3921 Te. HATTON 46

WHOLESALE  
ONLY.

  
TRADE MARK

# the ethical name in Contraception .



**Ortho-Gynol:** contraceptive jelly.

Package A : 3 oz. tube, with Ortho Applicator.

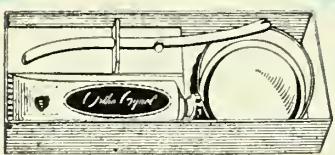
Package B : 3 oz. tube.



**Ortho-Creme:** contraceptive cream.

Package A : 2 $\frac{5}{8}$  oz. tube, with Ortho Applicator.

Package B : 2 $\frac{5}{8}$  oz. tube.



**Ortho-Gynol Set:** containing :

3 oz. tube of Ortho-Gynol

Ortho Diaphragm

Ortho Diaphragm Introducer } in sizes 55 to 95

(in 5 mm. gradations)

**Ortho-Creme Set:** as Ortho-Gynol Set with tube of Ortho-Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations).

**Ortho Diaphragm Duo-pack:** containing Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations).  
1 oz. trial size Ortho-Gynol.  
 $\frac{3}{4}$  oz. trial size Ortho-Creme.

**Ortho Diaphragm:** coil spring, rubber diaphragm sizes 55 to 95 (in 5 mm. gradations).

Strong, light, durable, the Ortho Diaphragm is a contraceptive device of outstanding quality and dependability. Each is packed in a permanent and beautiful plastic box.

**Ortho Applicator:** for vaginal application of measured dose (5 cc.) Ortho-Gynol or Ortho-Creme.

**Ortho Diaphragm Introducer:** individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations)

*Supplies through your usual wholesaler, please!*



# Ortho Pharmaceutical Limited

HIGH WYCOMBE · BUCKINGHAMSHIRE · ENGLAND

*Makers of Gynaecic Pharmaceuticals*

**FOR HOME & EXPORT**

**STRYCHNINE SALTS**

**PHENOTHIAZINE**  
***Dispersible Powder***

**CALCIUM LEVULINATE**  
***oral and injectable***

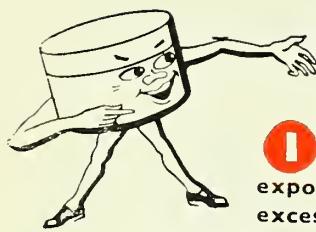


**M·W·HARDY**  
**AND COMPANY**  
**(OVERSEAS) LTD**

★ We can supply these and many other drugs advantageously.

**PINNERS HALL · GT WINCHESTER ST · LONDON · E.C.2**

TELEPHONE: LONDON WALL 7131



# REMEMBER

## these points!

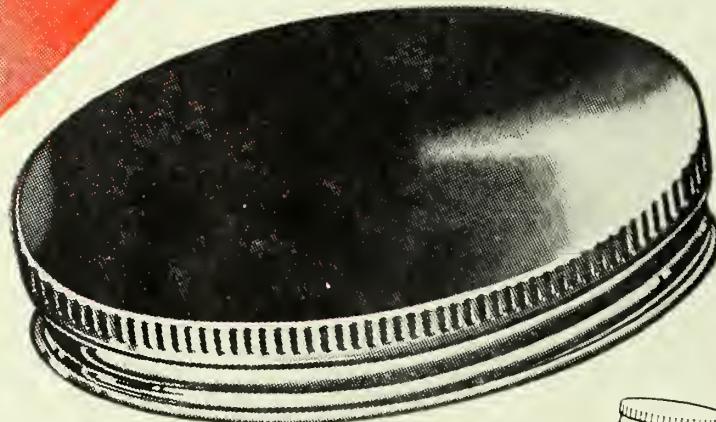
**1** Don't store closures where they will be exposed to prolonged heat, excessive dryness or damp. Such conditions often affect the liners, causing them to swell and buckle or to curl and perhaps fall out.



**2** The supplier knows what techniques, colours, layouts, work best in production. Let him help you by submitting designs and suggestions.

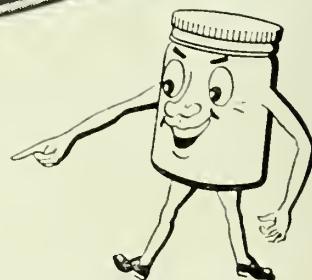


**3** Use the closures in proper rotation. Most suppliers put the date of manufacture on the package.



**J G B**  
**BOTTLES**  
AND  
**CLOSURES**  
*The Perfect Pair*

**4** When re-ordering, quote the supplier's reference or job number and send a sample when possible, or describe the closure accurately and in detail. This often saves time, thus avoiding rushed work.



**UNITED GLASS BOTTLE MANUFACTURERS LTD**

8 LEICESTER ST., W.C.2 · Telephone: GERRARD 8611 (18 lines) Telegrams: UNGLABOMAN, LESQUARE, LONDON

# RAYWARP make the headlines—

to boost your  
Christmas Sales

*Fiesta* Nylon Turban—  
fashion's gay new note for  
everyday use.

*Ninette* Nylon Sleeping  
Cap—protects your customers'  
"permanent" charm.

**P.5.** Sleeping Net—  
nylon, panelled, self-adjusting.

**B.8.** The Boudoir Cap—  
bows and ribbons for charm  
and security.



These Raywarp headwear specialities are supplied in an attractive free Christmas Card folder—making a grand present for your customers to give to their friends and extra profit for you. Make sure of your Christmas 'stocking'—write to your wholesaler to-day.

# SURGICAL DRESSINGS

*SPECIALISTS in the Manufacture of*

**PURE WHITE ABSORBENT GAUZES,  
AND BANDAGES**

Hospital and B.P.C./N.H.I. Qualities  
Plain and Sterilised.



**WOVEN BLEACHED AND PACKED IN  
OUR MODERN HYGIENIC FACTORIES**

AT  
**DUDLEY AND BLACKBURN**



**SUPPLIERS TO GOVERNMENT DEPARTMENTS  
HOSPITALS, WHOLESALERS, ETC.**

**sanford**

*Manufacturing & Trading Company Limited*

RUSSELL HALL • DUDLEY • WORCS

# Use U·M·P COLLAPSIBLE METAL TUBES

*and fill them by the*

## U·M·P COLLAPSIBLE TUBE FILLING UNIT

This unit consists of Tube Filling Machine, Tube Closing Machine and Tube Crimping Machine. Please write for particulars and descriptive leaflet.

We are also moulders of PLASTICS to the Trade by injection and compression methods



THE SIGN OF SERVICE  
AND CO-OPERATION

**UNIVERSAL METAL PRODUCTS LTD.**  
SALFORD 6 LANCS. Telephone PENDLETON 1631-2-3  
LONDON OFFICE: ARGYLE HOUSE, 29/31 EUSTON ROAD, N.W.1.

Wide mouthed  
2 pint Vacuum Jar  
Model J.1012 pint  
Vacuum Flask  
Model Q.F.1 pint  
Vacuum Flask  
Model S.C.1 pint Plastic  
Vacuum Jug  
Model P.J.**VACCO***Vacuum  
Vessels*

All the models in our range are fitted with VACCO refills of extra high thermal efficiency. This ensures minimum temperature change — hot contents keep piping hot and cold contents keep icy cold.

MADE IN ENGLAND

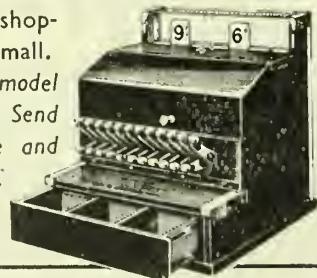
Enquiries to:

**VACCO LIMITED**Grosvenor Gardens House,  
Grosvenor Gdns., London, S.W.I.

## THE WARNING BELL

A ring of the bell on a Gledhill Cash Register is at once an assurance and a warning. Money is either being paid in or taken out. Every time the bell rings five protective features come into operation to safeguard your interests, to check your assistants and to give confidence to your customers.

Gledhill Registers represent the highest perfection in mechanical accounting for shopkeepers large and small. There is a suitable model for your business. Send for fully informative and illustrated Catalogue.

BRITISH MADE  
FOR 60 YEARS

**G. H. GLEDHILL & SONS LTD**  
28 TRINITY WORKS, HALIFAX

## PACK CHEMICALS & DRUGS

*speedily, securely  
and attractively  
with*

**Gosheron**  
*self-adhesive TAPES*

★ Use Transprint to name,  
number, route, publicise

Samples with pleasure

JOHN GOSHERON & CO LTD  
Gayford Road London W12

# 153 MILLION

advertisements for

# DUNLOP

## HOT WATER BOTTLES

vertisements like these will appear in big circulation newspapers during November, December and January, reminding millions of chilly people that a hot water bottle can be so much more welcoming when it has taken the chill off their feet! Now that winter is here customers want to buy these hot water bottles with the name they know and trust, so—look to your local newsagent now. These are the big circulation papers which will advertise the Dunlop range:—

EXPRESS  
MAIL  
MIRROR  
Y DISPATCH  
TIMES

NEWS OF THE WORLD  
DAILY HERALD  
DAILY GRAPHIC  
NEWS CHRONICLE  
THE PEOPLE  
SUNDAY EXPRESS



OBtainable from your usual wholesaler

**For  
40 YEARS  
“EUPINAL”**

(A C.F. LINE)

*has been successfully used in  
the treatment of  
**ASTHMA AND  
CHRONIC  
BRONCHITIS***

There is every opportunity for the Pharmacist to build sound and profitable business with this old established preparation.

“Eupinal” contains Ammonium Caffeine Iodide in a most elegant and effective combination.

In Chronic Bronchitis “Eupinal” softens the tough accumulated mucus in the bronchial tubes and allows it to be more readily expectorated. In Asthma it possesses a markedly soothing effect, lessening the frequency of attacks and reducing their severity and duration, and relieving breathlessness. “Eupinal” contains no poison and may be taken for prolonged periods.

	Retail each inc. tax	Purchase tax doz.	Trade price doz.
4 Oz.	3/10	8/10	26/6
8 Oz.	6/10	16/-	48/-

BONUS—One 4 oz. bottle with each 26/6 value ordered.

DISPENSING PACK — 40 oz.  
17/6 (tax free) each.

SHOWCARD AVAILABLE

A PRODUCT OF

*Cuxson Gerrard & Co. Ltd.*  
OLDBURY BIRMINGHAM  
Phone: BROADWELL 1355 (4 lines)

**DELIVERY**

**Next Week  
Not  
Next Year**

If you have run low in Tablet cartons or Labels, write to **WHITE LAW'S** FOR A SPEEDY SERVICE

**J. N. WHITELAW LTD**

CHEMIST'S PRINTERS

Palestine Grove, Merton, London, S.W.1

Telephone MITCHAM 4411

PLEASE PASTE THIS ADVERT IN THE ROGUES GALLERY FOR FUTURE REFERENCE



Collapsible Tubes from Stock, in gross lots and above, for Chemist and Laboratories who make their own creams and ointments.

Price list and samples upon request.

**IMPAX WORKS** (Mail Order Department)  
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Telephone: Feltham 4211 (2 lines)

**SURE-SELLING STOCK**

OVER 150 YEARS REPUTATION

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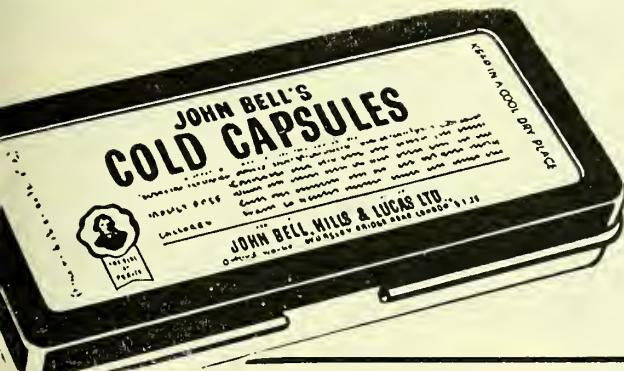
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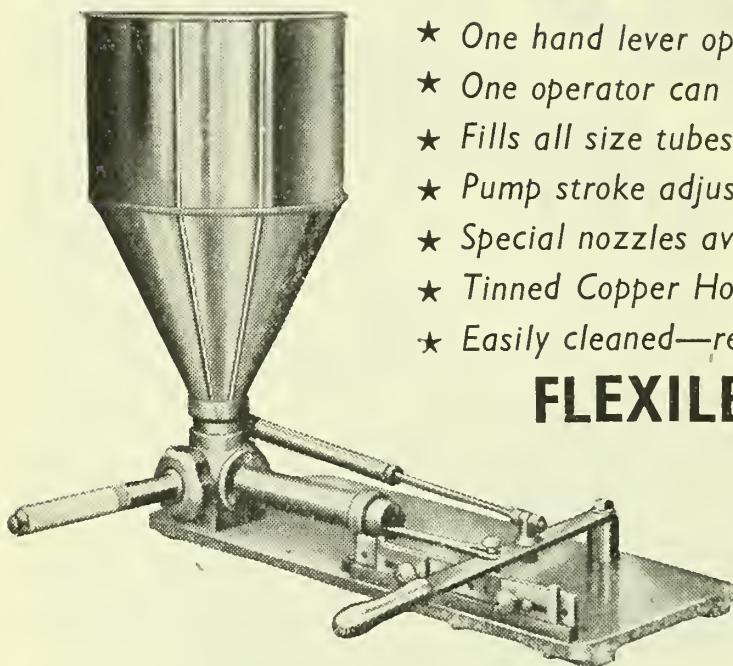
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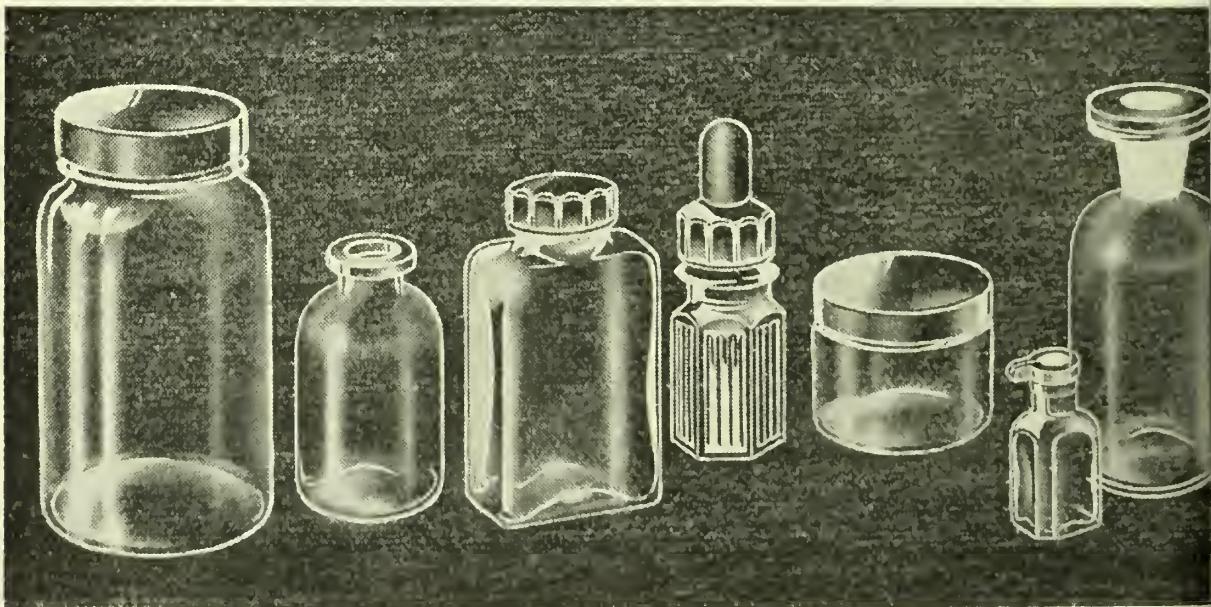


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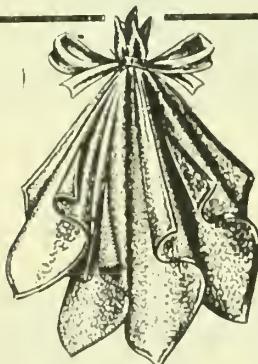
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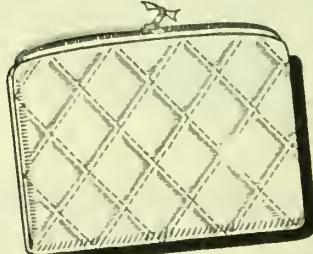
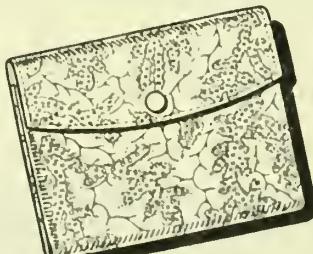
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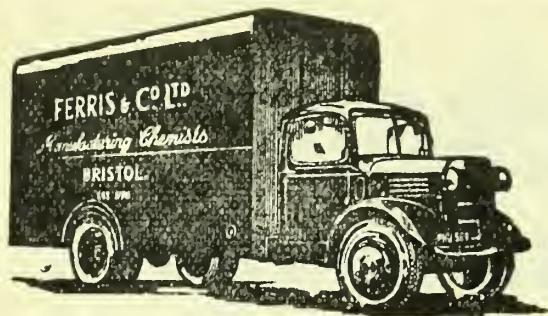
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	<u>Lysine</u>
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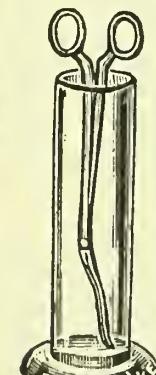
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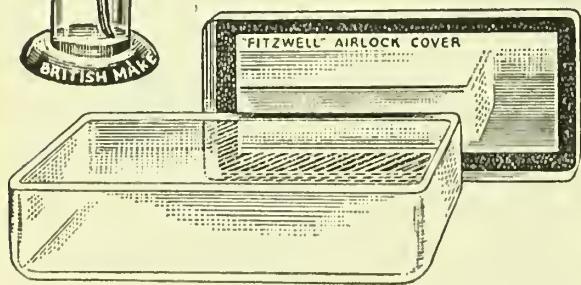
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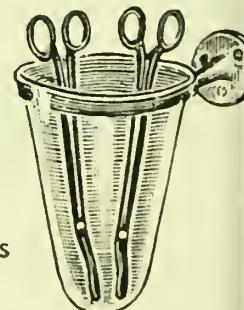
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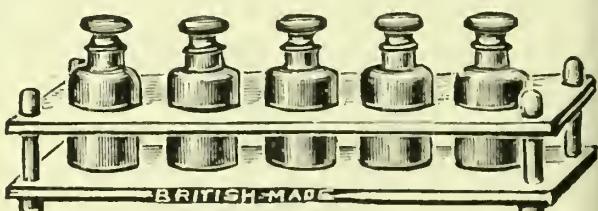


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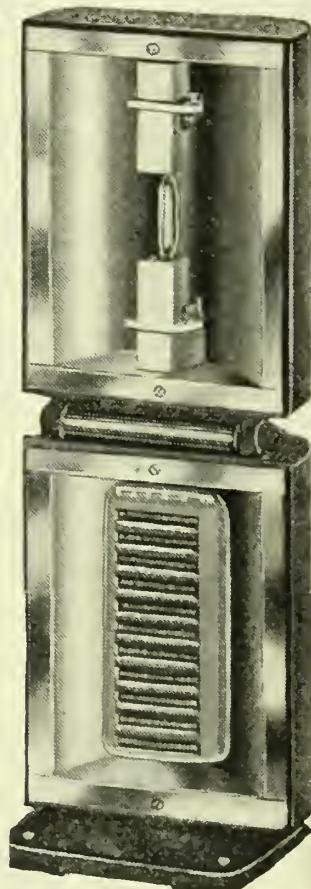
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Volume CLVIII

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## NEWS OF THE WEEK

**Freight Charges to Rise.**—A 5 per cent. increase in railway freight, dock and canal charges from December 1 was announced by parliament on November 18.

**Photography Lectures for Juveniles.**—The Royal Photographic Society has arranged the following lectures for persons aged 12-17 years to be held at 16 Queen's Gate, London, S.W.7: January 1, "How We See Colour"; January 8, "How We Measure Light"; and January 15, "Putting Colour into a Photograph." Each lecture is at 3 p.m. Free tickets may be had on application to the Secretary of the society.

**International Non-proprietary Names.**—A summary of a lecture on international non-proprietary names for drugs by Mr. P. C. (secretary of the Expert Committee on the International Pharmacopœia of the World Health Organisation) delivered before the fourteenth general assembly of the International Pharmaceutical Federation,

is published in the "Chronicle of the World Health Organisation," November 1952.

**Pharmacy Act Centenary Exhibition.**—Instead of its December evening meeting the Pharmaceutical Society is holding, in its museum and library on December 3, 3-10 p.m., an exhibition of books, documents, drugs, apparatus and other material relating to the period when the 1852 Pharmacy Act was passed. Members desiring to view the exhibition after 7 p.m. are asked to apply to the Society for tickets.

**Union President on Late Closing.**—At a rally of the Union of Shop, Distributive and Allied Workers in Chester on November 16, Mr. W. Padley (president) said that the Union contended that the general shop closing hour should be 6 p.m. (7 p.m. on the late day). In proved need, local authorities should have the power to extend the hours to 7 p.m. (8

p.m. on late day). That view was supported by the Trades Union Congress and other organisations. In the 'thirties, when the closing hour had been 8 p.m. (9 p.m. on late day) the average working week for a shop worker was about fifty-five hours.

**Additions to Drug Tariff.** — Amendments to the Drug Tariff for October include the following additions:—Injection of procaine penicillin, N.F. (sterile suspension), 10 c.c. (300,000 international units per c.c.); catheters, urethral including Coudé, Bicoudé, cylindrical, Olivary-tip or other types specifically ordered by the prescriber. Other additions were given in the *C. & D.*, November 1, p. 586.

**Commonwealth Conference Memorandum.** — The Federation of Chambers of Commerce of the British Empire has submitted to the Prime Minister, the Chancellor of the Exchequer and other Ministers, a memorandum setting out its views on some of the matters which the Conference of Commonwealth Prime Ministers is expected to discuss in London in November. The national associations of chambers of commerce in the Commonwealth have been asked to submit those views to their own Governments. Concern is felt that the system of Imperial Preference is being nullified by the General Agreement on Trade and Tariffs.

**1953 Cold Research Plans.** — About 600 volunteers are wanted to test experimental materials for the presence of cold organisms at the Common Cold Research Unit, Harvard Hospital, Salisbury (*C. & D.*, 1947.I.78), in 1953. Because of the failure to grow the common cold virus in fertile hens' eggs or in small laboratory animals, work is now being concentrated on attempts to grow the virus in living human tissues cultivated in tubes or flasks in the laboratory: tissues are obtained from sources outside Harvard Hospital in the course of routine surgical operations. Volunteers (aged 18-45 years) should write to the Medical Officer at the Hospital.

**London University Lectures.** — Among the special lectures arranged for the winter term of the University of London are the following:—*Medicine*, at the London School of Hygiene and Tropical Medicine, Keppel Street, Gower Street, London, W.C.1, at 5.30 p.m., on December 8, Professor P. György, Pennsylvania, on "Blood Group and Related Polysaccharides in Growth and in Resistance to Disease, with Special Reference to Human Milk";

*Pharmacology*, at University College (Physiology Lecture Theatre), Gower Street, London, W.C.1, at 5.30 p.m., on October 6, Professor E. R. Loew, Boston, on "Properties of Adrenergic Blocking Drugs and Physiology", at King's College, Strand, London, W.C.2, at 5.30 p.m., on October 13, 15 and 17, Professor E. M. LaRivière, Harvard, on "Movement of Fluid Dissolved Substances Through the Capillary Wall."

**Key Industry Duty Exemptions.** — Order (S.I., 1952, No. 1986) exempts the following articles from Key Industry Duty from November 20 to February 18, 1953:—D-a-Aminoisovaleric acid; L-a-aminovaleric acid; carotene; *N,p*-chlorobis(*N,N'*-dimethyl-*N*-2-pyridylethyl)nedian hydrochloride; dimethyl terephthalate; ethyl 4:4'-dihydroxydicoumarinyl-3-acetate; *N*-monoethyl-*o*-toluidine; gelsemine; thiophene. The Board of Trade is considering the renewal for the period from February 19 to August 18, 1953, the exemptions from K.I.D. set out in the Safeguarding of Industries (Exemption) (No. 5) Order, 1952, and in further Exemption Orders that may be made before that date. Any communication arising out of this announcement should be addressed to the Industries Manufacturers Department Division, Board of Trade, Horse Guards Avenue, London, S.W.1, not later than December 13.

**Therapeutic Substances Regulation.** — An Order (S.I., 1952, No. 1937) consolidating and amending the Therapeutic Substances Regulations, 1931-50, has been made by the Joint Committee constituted under Section 4 of the Therapeutic Substances Act. The Order (H.M. Stationery Office, price 1s. 6d.) comes into operation on January 1, 1953 and applies to England, Wales, Scotland and Northern Ireland. It adds to the Schedule of the Act dimercaprol, its derivatives and preparations; and preparations of streptomycin intended for parenteral injection. The regulations specify that salts of streptomycin with inorganic acids of a potency less than 600 units per mgm. shall not be issued. The minimum permitted potency of other derivatives is to be determined by the licensing authority. The regulations give definitions of streptomycin, dimercaprol and specifications and directions for their quality. The Order also makes down special provisions for BCG vaccine, purified protein derivative (PPD), tuberculin, oxphenarsine salts, and

and protamine zinc insulin—substances already within the Schedule of the but at present only covered by general provisions.

## LOCAL NEWS

**Birmingham Dispensers Form Branch.** A Birmingham branch of the Guild of Dispensers was formed on October 27. Secretary: Mr. J. P. Mason, 215 Wood Lane Road, Erdington, Birmingham.

**Works Visit.**—Thirteen members of the West Middlesex Branch of the Pharmaceutical Society visited the headquarters of Glaxo Laboratories, Ltd., Greenford, Middlesex, on October 23.

**Nottingham's New Health Centre.**—A new health centre, the "John Ryle," was opened recently on a new housing estate in Clifton, Nottingham. It comprises four general practitioner surgeries and other accommodation, but no pharmaceutical department.

**Folkestone Branch.**—The second annual dinner of the Folkestone Branch of the Pharmaceutical Society was held in Folkestone on October 29. The chairman (Mr. T. C. S. Neal) presided and the guest of honour was Mr. F. W. Adams (a secretary and the registrar of the Society). The chairman proposed "The Pharmaceutical Society" to which Mr. Adams responded. He paid tribute to the interest the Branch in the Society's convalescent home. "The Guests" was proposed by Mr. A. B. Taylor. The mayor of Folkestone replied, congratulating members of the Society on their high standards.

**Not Allowed.**—At a recent meeting of the Soke of Peterborough Executive Council at which a discussion took place on what dressings could be prescribed under the National Health Service, it was stated by Dr. W. Marshall that, because the Ministry of Health would not agree to his

prescribing a large strip of dressing for a patient's back, he had had to use, at twice the cost, small squares measuring 3 x 2 in. A letter from the Ministry, read at the meeting, stated that individual patients would not require a yard of strip dressing, and that manufacturers had not been able to produce (for the Drug Tariff) a satisfactory pack of a strip a few inches long. Dr. Marshall said that such packs did exist: he had used them. It was decided to notify the Ministry.

**Manufacturers' Dinner to President.**—The president of Parke, Davis & Co., Ltd. (Mr. H. J. Loynd, U.S.A.), was entertained to a dinner, at Hounslow, Middlesex, on October 24, at which more than 150 representatives of the European branch of the company were present. The dinner concluded a sales conference at Hounslow. Proposing the toast to the company, Mr. L. O. Smith (general manager, European branch) announced that the president had earlier approved the presentation of gold wristlet watches to all members of the company who had served more than twenty-five years. Those of the one hundred and sixty-five eligible members who were present were handed their watches by the president. They included Messrs. A. Haines (head of the receiving department) and S. J. Pitt (analytical department), each of whom had contributed 50 years' service. The remaining long-serving staff were entertained to a dinner at the Hounslow laboratories on November 4, when their watches were presented by Mr. Smith (who himself has served more than twenty-five years with the company).

**London Pharmaceutical Committee.**—The London Pharmaceutical Committee met in London on November 11, Mr. R. Collings (chairman) presiding. The secretary stated that numbers of prescriptions dispensed in October had been determined for sixteen of the twenty-nine London



Official heads and managers of Parke, Davis & Co., Ltd., at a dinner given recently (see above) to the American president (Mr. H. J. Loynd).

boroughs. Those represented about half the total number of prescriptions submitted. So far it appeared that there was a reduction of 16.5 per cent. compared with October 1951. It was reported that a contractor was using, in advertisements, wording which had not been approved by the Executive Council or the Ministry of Health. It was agreed that the contractor should be required to submit the wording for approval. Another contractor was offering a "free gift voucher value 1s." to the first 500 customers at a newly-opened pharmacy. The contractor had stated that the offer applied only to cash customers and was in connection with photographic work. The advertisement did not make that clear. It was agreed to investigate the matter further. The secretary reported that the proportion of contractors who had rejected the recent offer on pricing arrears was 65.3 per cent.

## ULSTER ASSOCIATES' SECTION

THE ninth annual meeting of the Associates' Section, Ulster Chemists' Association, was held in Belfast, on November 6, when THE CHAIRMAN (Mr. E. G. Mackle) welcomed Mr. W. R. McNabb and Mr. C. L. Gordon-Rattie (chairman and vice-chairman respectively of the U.C.A.), both of whom addressed the meeting. Mr. Mackle again appealed to Associates to encourage their fellow-employees to join the Section, and said that he would like to see representatives of that large section of pharmacists on the Council of the Pharmaceutical Society. He believed that the employee pharmacist, and the young pharmacist, had an important part to play in a progressive policy for pharmacy and in upholding of the status of the profession. Regret was expressed at resignation from the Committee of Miss M. Meneely (treasurer). The insurance subcommittee gave a report of the year's work and were empowered to continue their negotiations. The annual report and financial statement were adopted and the following members were declared elected to the Committee: Messrs. W. C. Abernethy, J. I. V. Marshall, J. E. Morley, T. F. Mulgrew, S. Wright and G. Willman.

At the November meeting of the Committee the following officers were elected: *Chairman*, Mr. J. Kerr; *Vice-chairman*, Mr. T. W. Creswell; *Secretary*, Mr. E. R. Wightman; *Treasurer*, Mr. J. E. Morley; *Assistant Treasurer*, Mr. W. S.

Abernethy. Mr. Kerr spoke in appreciation of the outgoing chairman (Mr. E. G. Mackle) who had held office for the past two years. The following applications for Associateship were approved: *Ph.C.*, Mrs. C. E. Lemon, Messrs. M. D. Hall, W. Browne; *Assistants*, Messrs. D. Dougherty, J. McDonagh, F. Mason, Miss M. Burns; *Apprentices*, Misses S. M. Comerton, M. M. Dummigan, E. A. Gillespie, V. Jones. Mr. W. J. Warnock. Resignations from the Associates' Section and the social committee for business reasons were received with regret from Messrs. T. Murphy and J. J. Higgins; good wishes for their success were extended by the chairman.

## HEALTH SERVICE IN NEW ZEALAND

THE report of the New Zealand Director General of Health for the year 1951-52, available in Great Britain recently, shows that under the New Zealand Pharmaceutical Benefits scheme, drugs supplied by chemists rose in cost to £2,371,769, against £2,036,990 in the previous year and £530,695 in 1942-43. The cost of drugs supplied by institutions fell from £53,207 to £48,160; drugs supplied by medical practitioners rose from £6,803 to £8,287. During the year the consumption of heroin (4.013 kilos) showed an increase over the 1950 figure (2.28 kilos) but was lower than in the four preceding years. During the year the Dangerous Drugs Regulations were amended to limit the amount of liquid preparations of heroin that may be prescribed at any one time to not more than sixteen doses. Another regulation that came in during the year gave authority to Medical Officers of Health to control more effectively the amounts of narcotic drug allowed to a confirmed addict. Former restrictions on the sale of veterinary preparations of penicillin under the Food and Drug regulations were relaxed. In Food and Drug sampling during the year, 18.4 per cent. of the 656 samples of drugs and proprietary medicines examined were found not to comply with the regulations. Deficiencies in most hospital budgets, which had to be made good by Treasury advances, were attributed mainly to the greater use of penicillin and other antibiotics. The Director of the Division of occupational health said that it was proposed to draw up regulations to ensure the safety of workers using insecticides, fungicides and weed killers.

## TOPICAL REFLECTIONS

### Keeping Accounts

The frankness of the author of "An Accounts System for Retailers" (pp. 687-91) encourages readers to study the system. In his first paragraph he writes: "There is a general but understandable aversion to the business of keeping accounts." There is. In one of his concluding paragraphs he tells us that his article "is not put forward as the only system possible," and that "many other variations, rearrangements and modifications may be advanced." Retailers, not only in pharmacy, but in various vocations, have in the past often been lax in their book-keeping till sharply reminded of its importance by some accident. At the present-day the demands of income-tax authorities render accurate business accounts imperative, the more so because some officials appear to regard taxpayers as potential criminals. The chartered accountant who has drawn up this comprehensive scheme of book-keeping for retailers distinguishes between what he regards as essential and other features not in all circumstances essential. Thus he holds that a cash book and a petty cash book should be kept "without fail," and reminds us that a limited company must make records of sales and purchases, assets and liabilities. He notes, perhaps with a touch of irony, that "it is not known, of course, what amount will be received [for National Health Service dispensing] from the Executive Committee." I am not sure that it is desirable to load a prescription book with so many particulars as your contributor suggests; however, "the custom of the trade" is a fairly safe guide in that matter.

### Chemical Analysis in Industry

An abstract of an address by Dr. L. H. Lampitt on the importance of chemical analysis in industry and manufacture, delivered at the recent International Congress on Analytical Chemistry held in Oxford, has interested me so much that I have read it twice. Dr. Lampitt makes his points with an attractive lucidity not at the command of every scientist. In this paragraph I select, with slight abridgement, a few passages. At the outset he tells us that the analyst of today has almost become such a specialist that he may be divorced from the genuine trend of chemical development; workers in industrial control laboratories may thus lose their love

of chemistry. In industry the three main areas of interest that touch and overlap each other are (a) research; (b) process development; (c) process control. The modern analyst is not always popular: he may prove the weakness of an industrial project. Speed may be essential; a complete analysis may be a waste of time. The analyst is no longer satisfied with purely chemical methods, and tests may be essentially physical and biochemical. Instrumentation and careful technicians do not replace the experience of the analytical chemist: enthusiasm for the "black box" and all it entails must not blind us to the fact that the final judgment must be in the hands of the man who understands. (There is here a hint for the dispensing bench.)

### "Martindale"

Dr. K. R. Capper's address at a London evening meeting of the Pharmaceutical Society (pp. 677-78) brings before us a book known, I suppose, all over the world. Its real title, "The Extra Pharmacopœia," has long since yielded place to the familiar "Martindale." For fifty years (1883-1933) the Martindales, father and son, were in charge of this concise and accurate handbook: the work of their collaborator was valuable but secondary. Most British pharmacists now in practice have had an edition of this manual at hand (if not the latest edition) ever since they left school. In your obituary notice of Dr. W. H. Martindale (*C. & D.*, 1933.I.414) it is mentioned that all his life he was an ardent advocate of the principle "Buy British," even when that principle was not so popular as it has since become. On at least two occasions during the nineteen-twenties the appearance of a new edition of "Martindale" was heralded by a brilliant and amusing "conversation" between its editor and the then editor of the *C. & D.*: these dialogues were written by the former, and were inserted—almost without revision—by the latter. Dr. Martindale found time to contribute to the proceedings of the British Pharmaceutical Conference, served as Mayor of Winchelsea, and studied pharmacy in other countries. His courtesy was known to all who had the privilege of his acquaintance. When I last saw him, there was evidence of overwork: it might have been hoped that with timely rest he would be active for several more years. But it was not to be.

Xrayser

## COMPANY NEWS

**FISONS, LTD.**—Consolidated trading profit to June 30 was £1,602,958 (against £1,901,631 in the previous year). Group net profit was £668,778 (£781,307). The ordinary dividend is increased from 9 per cent. to 10 per cent.

**EVANS MEDICAL SUPPLIES, LTD.**—The interim dividend on ordinary stock for the year ending December 31 is one penny per 5s. stock unit, less tax (1½ per cent.) (against 3 per cent. in the previous year), and not as previously stated.

**BRITISH CHEMICALS & BIOLOGICALS, LTD.**—Consolidated trading profit to June 30 was £157,333 (against £221,071 in the previous year). After tax, £70,340 (£55,699) and other charges the net profit was £86,339 (£165,277). It is proposed to change the name to Fisons Chemicals, Ltd.

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**—The following have been appointed directors of the company: Mr. C. R. Richardson (chairman, Salt Division); Mr. R. A. Banks (joint managing director, Alkali Division), Dr. James Taylor (joint managing director, Nobel Division), and Dr. Ronald Holroyd (joint managing director, Billingham Division).

**BOOTS PURE DRUG CO., LTD.**—Mr. S. Harker-Smith (general sales manager and a director of Boots Cash Chemists (Northern), Ltd.), has been appointed to the executive committee. Mr. J. W. Leivers, M.P.S. (general manager in the Essex and East London area) has been made a director of Boots Cash Chemists (Southern), Ltd., and also appointed to the executive committee.

**GLAXO LABORATORIES, LTD.**—In the annual review for the year ended June 30, the chairman (Sir Harry Jephcott) reports that business continued to expand, although the rate of growth, especially in export markets, was less than in the preceding year. At home the sterling turnover was about the same, but price reductions (chiefly in penicillin) made during the year will benefit the customer, including the Ministry of Health, by £900,000 in a full year. Over 50 per cent. of the company's sales are made overseas and more than £4 millions is invested either in subsidiary companies or stocks outside the United Kingdom. The accounts and proposed dividend were given in the *C. & D.*, October 4, p. 463.

## New Companies

**K. C. BATTY, LTD. (P.C.).**—Capital £1,000. To acquire the business of pharmacists carried on by Kenneth C. Batty, M.P.S., at 420 Wilmslow Road, Withington, Manchester, Kenneth C. Batty and John D. Batty, directors.

**B. G. HARRIS, LTD. (P.C.).**—Capital £2,000. To acquire the business of a chemist and druggist formerly carried on by the late Bernard G. Harris at 6 Market Square, Millom, Cumberland. Elizabeth M. Harris and Mary E. Harris, directors.

**MEDICINES, LTD. (P.C.).**—Capital £8,000. To carry on the business of wholesale and retail chemists and druggists, etc. (Mrs.) Cora E. P. Knight, (Mrs.) Eithne M. Onibuewe, and Thomas A. Meudell, directors. R.O.: 14 Cardiff Road, Pengam, Mon.

**CAMBERLEY PHARMACEUTICALS, LTD. (P.C.).**—Registered in Dublin. Capital £1,000. To carry on the business of wholesale and manufacturing chemists, druggists, drysalters, etc. John G. Freyne, M.P.S.I., St. Mary's, Clondalkin, co. Dublin, and George Calvert, subscribers.

**R. LAMB, LTD. (P.C.).**—Capital £2,000. To carry on the business of chemists and druggists at Portway, South East Sub-Centre, Woodhouse Park, Wythenshawe, Manchester. Reginald Lamb, M.P.S., John W. Bracewell and Lilian Bracewell, directors.

**MOORE MEDICINAL HOLDINGS, LTD. (P.C.).**—Capital £100. To carry on the business of manufacturing, consulting and analytical chemists and druggists, etc. Thomas S. Sutherland and Margaret B. Main, subscribers. First directors are to be appointed. Solicitors: Frere Cholmeley & Nicholsons, 28 Lincolns Inn Fields, London, W.C.2.

## BUSINESS CHANGES

**MR. C. B. DALTON, M.P.S.**, is opening a pharmacy at 15 Iveson Approach, Ireland Wood, Leeds, 6, in December.

## Appointments

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**, London, have appointed Mr. J. H. Cotton treasurer of the company.

**T. & H. SMITH, LTD.**, Glasgow, have appointed Mr. W. McClure their proprietaries buyer in the place of Mr. J. R. Eunson who has retired.

## LEGAL REPORTS

**Shopbreaking by a Constable.** — At Leeds Assizes, on November 13, a sentence of three years' imprisonment was imposed on George Holden Sykes, a West Riding police officer, Maynell Avenue, Rothwell, after he had pleaded "Guilty" to two charges of shop-breaking on his beat, and stealing films, a camera and other items. Four other offences of similar nature were asked to be considered, the total value of property involved being given as £70.

**Pharmacy Act Fines.** — At Coventry, recently, Parkers (Chemists), Ltd., 1 Holyhead Road, Coventry, were fined a total of £15 and ordered to pay costs of £26 5s. on charges, to which they pleaded guilty, of selling Dexedrine tablets in an unlabelled container; selling the tablets to an unknown person without a certificate; and failing to record the sale in the poisons register. For the Pharmaceutical Society of Great Britain, which prosecuted, it was said that an agent had made a test purchase and no precautions had been taken by the assistant. The tablets were handed over as if they had been saccharin tablets. The tablets were dangerous, and recently a child had died from swallowing some. Substantial costs were asked for because the case had twice been adjourned at the request of the company, though they now pleaded guilty. The police said that in 1942 the company had been fined a total of £15 for failing to retain prescriptions after sales of tablets. For the company, it was stated that the assistant who sold the tablets had been dismissed.

**Winding-up Order.** — On the petition of Fred Storey, Ltd., Hill Street, Belfast, Mr. Justice Curran, in the Northern Ireland Chancery Court, on November 10, made an order winding-up the Dispensing and Surgical Co. (Belfast), Ltd., pharmaceutical chemists, Clonard Street, Belfast. Counsel for the petitioners said the position was that the company could not pay its debts. The company had a nominal capital of £500, divided into 500 shares of £1 each, all paid up. It was indebted to the petitioners in the sum of £529 for goods sold and delivered. Application had been made for payment without success. Counsel said two meetings of creditors had been held, but no agreement had been reached with regard to a voluntary liquidation, and no one could be found to act as liquidator. The petitioners accordingly passed a resolution that the company should be wound up under the Court. The balance

sheet as ascertained in August showed a deficiency of £934. For the company it was stated that the application to wind-up could not be resisted. On counsel's advice the company had instituted proceedings against another company and if that action was successful it was believed that a payment of 20s. in the £ could be made to the creditors. The Court was informed that the company was anxious to discharge its debts.

## THE WEEK IN PARLIAMENT

MAJOR E. G. R. LLOYD asked the Secretary for Scotland on November 11 why the average cost per prescription dispensed under the Health Service in Scotland was substantially in excess of the average cost in England and Wales.

COMMANDER T. D. GALBRAITH (a Joint Under Secretary of State for Scotland): The average cost in Scotland is higher mainly for two reasons—that the ingredients cost more and that we have to pay a higher dispensing fee. But the average cost per prescription is not a good measure of the total cost to the Health Service. A better figure of comparison is the average annual cost per patient, and, on this figure, there is no significant difference between Scotland and England.

MAJOR LLOYD asked if, in future reports of the Department of Health, he would provide in Appendix 10 not only the monthly figures of prescriptions dispensed, but also the monthly cost and average cost of the prescriptions issued.

COMMANDER GALBRAITH: The Minister intends to do so, in so far as the information is available at the time of publication of the report.

### Hæmophilia Research

In a written reply on November 13, MR. A. H. E. MOLSON (Parliamentary Secretary to the Ministry of Works) told MR. P. F. REMNANT that recent work on hæmophilia by the Medical Research Council had been concerned chiefly with the preparation and clinical trials of concentrated blood fractions which it was hoped would be more effective in treatment than the transfusions of whole blood or plasma used at present.

### Shop Closing Hours

A prayer to annul an Order (*C. & D.*, October 18, p. 522) that removed former restrictions on winter shop-hours was lost after a debate in the early hours of November 19 by 286 votes to 265.

## BIRTH

**TAYLOR.**—At Simpson Memorial Pavilion, Edinburgh, on November 5, to Ena, wife of Thomas E. Taylor, M.P.S., 53 High Street, Cockenzie, East Lothian, a son.

## DEATHS

**BOUCHIER.**—On October 24, Mr. William Guy Clifton Bouchier, M.P.S., 65 Eastover, Bridgwater, Somerset. Mr. Bouchier qualified in 1908.

**EDWARDS.**—On November 6, Dr. J. T. Edwards, a distinguished specialist in veterinary virus diseases. Graduating in veterinary science in 1911, Dr. Edwards went on to gain his M.R.C.V.S. diploma, and in 1926 his Doctorate in Science. In 1921 he was appointed Director of the Imperial Bacteriological Laboratory, Indian Institute of Veterinary Research, Mukteswar, where he specialised on rinderpest, later applying his researches to swine-fever virus. He served for a number of years with the British Foot and Mouth Disease Committee, working at the Lister Institute, Pirbright, Surrey. During the 1939-45 war and afterwards he again studied rinderpest, latterly in Egypt.

**GARROD-THOMAS.**—At a nursing home in London, on October 24, Mr. Richard Noel Garrod-Thomas, aged sixty-seven. During the 1939-45 war he was controller of sulphuric acid, and until he retired in June 1952 had been general manager of the National Sulphuric Acid Association since its inception after the 1914-18 war.

**GOOD.**—On November 3, Mr. John Stanley Good, M.P.S., 42 Henbury Road, Westbury-on-Trym, Bristol, aged fifty-four. Mr. J. S. Good was the head of a family business (with shops in Cheltenham Road, and Gloucester Road, Patchway, Bristol) which his father had established more than sixty years ago. He is survived by his widow, a son and daughter.

**HORSBURGH.**—At his home in Clacton-on-Sea, Essex, on November 16, Mr. James David Horsburgh, M.P.S., aged eighty. He qualified in 1895 and for many years was in business at Watton, Thetford, Norfolk, latterly in partnership with his son, Mr. D. D. Horsburgh, M.P.S., as J. D. Horsburgh & Son.

**HUTCHEON.**—In Australia, on October 27, Mr. John Hutcheon, M.P.S., of 71 Riverview Street, Murwillumbah, New South Wales, aged seventy-one.

**JOHNSTON.**—The funeral of the late Mr.

W. Johnston, Ph.C. (*C. & D.*, November 15, p. 663) at South Northwood Cemetery, on November 13, was attended by Messrs. F. W. Branch (a former colleague on the Chemists' Defence Association) H. E. Chapman (representing the president and council of the Proprietary Articles Trade Association); Stanley McLeish (representing Mr. H. Glyn-Jones, Q.C., and family); H. Noble (representing the National Pharmaceutical Union); A. A. Stead (a former colleague on the P.A.T.A.); and F. G. Wells (representing the chairman of the Chemists' Defence Association, Ltd.).

**PADDON.**—On October 15, Mr. Thomas Herbert Paddon, M.P.S., Farwells, North Tawton, Devon, aged sixty-nine.

**SILLAR.**—At his home near Oxford, recently, Dr. William Cameron Sillar, aged eighty-eight. Dr. Sillar was for many years lecturer in experimental pharmacology in the University of Edinburgh. He retired nearly thirty years ago. With Sir Thomas Fraser and Mr. J. A. Gunn (late professor of pharmacology at Oxford) he carried out researches on the pharmacological properties of strophantus and other snake venoms.

**SINCLAIR.**—On October 10, Mr. Alexander Stuart Sinclair (husband of Mrs Edith Mary Sinclair, M.P.S., 142 Davies Road, West Bridgford, Nottingham).

## WILLS

Mr. D. G. MACKENZIE, M.P.S., 8 Huntershill Road, Bishopbriggs, Lanarks, left £2,383.

Mr. E. G. ELOURNE, M.P.S., 80 New Hey Road, Huddersfie'd, left £13,563 (£12,396 net).

Mr. F. S. HOLT, M.P.S., 51 St. James Road, Bridlington, left £8,935 (£7,134 net).

Mr. J. C. HIGSON, M.P.S., 7 Plover Street, Burnley, left £1,095 (£1,048 net).

Mr. C. C. GREENSMITH, M.P.S., High Street, Soham, Cambs, left £13,011 (£12,372 net).

Mr. W. RILEY, M.P.S., 40 Breedon Hill Road, Derby, left £6,154 (£6,066 net).

Mr. A. S. BARNES, M.P.S., 61 Percival Road, Rugby, left £1,986 (£1,939 net).

Mr. A. L. GARSIDE, M.P.S., Avenue Road, Freshwater, Isle of Wight, left £1,570 (£1,121 net).

Mr. J. W. W. ALLISON, M.P.S., 43 Mountain View, Cockermouth, Cumberland, and 31 Main Street, Cockermouth, left £11,002 (£10,857 net).

Mr. P. D. HOUSLEY, M.P.S., The Bankside Pharmacy, Sitwell Street, Spondon, Derbys, left £7,135 (£5,575 net).

Mr. R. R. BRIGHT, M.P.S., 168 Church Road, Willesden, London, N.W.10, left £13,626 (£13,508 net).

## PERSONALITIES

MR. ARNOLD WOODMANSEY, F.R.I.C. (analyst and director of spa research for the borough of Harrogate) retired on November 8.

MR. I. D. WRATTEN, recently appointed a director of Kodak, Ltd., was educated in Great Britain, and later went to Rochester, New York, where he worked in the laboratories of the Eastman Kodak Co. He undertook three world tours in connection with the installation and operation of 16-mm. film processing stations, and was subsequently transferred to Kodak,



Ltd., in London, eventually taking over his present position as joint manager of the motion picture film division. Mr. Wratten was president of the British Kinematograph Society, 1946-1948, and is now the president of the Royal Photographic Society. He serves on a number of committees concerned with the British Film Institute, The British Standards Institution, and the kinematograph industry. He comes from a photographic family, his grandfather having started the photographic firm of Wratten and Wainwright in 1877.

MR. ALISTAIR M. GRAHAM, M.R.C.V.S. (superintending veterinary officer, Ministry of Agriculture) has been elected president of the British Veterinary Association, 1952-53.

MR. V. G. WISBY, president, Smith & Nephew, Ltd., Montreal (a subsidiary of T. J. Smith & Nephew, Ltd., Hull), arrived in England on October 28 for a business visit of two or three weeks.

MR. FRED STOREY, C.B.E. (a past-president of the Pharmaceutical Society of Northern Ireland and president of the Chemists' and Druggists' Society of Ireland), has been appointed a member of the Northern Ireland Committee of the National Trust. Mr. Storey is also chairman of the Ulster Society for the Preservation of the Countryside. Mr. Storey was before 1925 a Member of the Pharmaceutical Society of Ireland.

MR. J. H. COTTON (deputy treasurer, Imperial Chemical Industries, Ltd.) who has been appointed treasurer of the company (see p. 000), commenced service with I.C.I. in the company's taxation department in 1928 and became its head in 1929. He was appointed deputy chief of the company's pensions department in 1937, head of the department in 1942, and deputy treasurer five years later.

## COMING EVENTS

### Monday, November 24

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Brill's restaurant, 206 Station Road, Edgware, at 8 p.m. Dr. K. R. Capper (editor of the Society's scientific publications department) on "Formularies and Formulation."

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2, at 6 p.m. Dr. P. W. Brian (Imperial Chemical Industries, Ltd.) on "Microbiology" (second of three weekly lectures).

### Tuesday, November 25

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Black Horse Hotel, High Street, Sidcup, at 8 p.m. Miss M. P. Hornsby-Smith (Parliamentary Secretary, Ministry of Health) on "Pharmacy and the National Health Service."

EASTBOURNE BRANCH, PHARMACEUTICAL SOCIETY, 2A Terminus Buildings, Eastbourne, at 7.30 p.m. General discussion meeting.

PLYMOUTH BRANCH, NATIONAL PHARMACEUTICAL UNION, Freedom Fields Hospital, Plymouth, at 7.30 p.m. Make-up demonstration by a representative of Max Factor Hollywood & London (Sales), Ltd.

### Wednesday, November 26

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Botanical Gardens, Edgbaston, Birmingham, at 8 p.m. Dance.

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Charlotte Rooms, Charlotte Street, Edinburgh, at 6.45 for 7.15 p.m. Annual dinner and dance.

LIVERPOOL CHEMISTS' ASSOCIATION AND BRANCH, Airport Hotel, Speke, Liverpool, at 8 p.m. Supper dance in aid of the Pharmaceutical Society's Benevolent Fund.

### Thursday, November 27

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Red House Hotel, Eastern Avenue, Ilford, Essex, at 6.30 for 7 p.m. Annual dinner and dance.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Mr. J. McClenahan (assistant secretary, N.P.U.) on "Test Prescription Problems."

NORTH LONDON PHARMACEUTICAL ASSOCIATION and NORTH METROPOLITAN BRANCH, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.30 p.m. Dance.

### Friday, November 28

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Central Hotel, Birkenhead, at 8 p.m. Film show presented by Mr. A. R. G. Chamings (Ciba Laboratories, Ltd.).

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial Hotel, Hull, at 8 p.m. Mr. N. Dewey (Allen & Hanburys, Ltd.) on "Sales Organisation."

## TRADE NOTES

**Sublingual/sublabial Tablets.**—For the administration of methyltestosterone or DOCA (deoxycortone acetate), Organon Laboratories, Ltd., Brettenham House, Lancaster Place, W.C.2, offer in Sublings sublingual/sublabial tablets the active principle in an inert water-soluble, wax base which ensures that the tablets are readily dissolved and the drug absorbed. The tablets are agreeably flavoured. Details of packs are given on another page.

**Prescribable on EC10 Forms.**—Dallas, Ltd., Junior Street, Leicester, state that their Dalzoband bandages No. 4 (zinc paste with urethane and ichthammol), No. 5 (zinc paste with urethane and calamine) and No. 6 (coal tar and zinc paste) are now prescribable under the National Health Service. The coal-tar bandage is used for a variety of skin infections, and the bandages No. 4 and 5 are used in connection with varicose ulcers, particularly where dry eczema appears.

**Penicillin Preparations.**—Biorex Laboratories, Ltd., 51 Exmouth Street, London, E.C.1, are now offering a range of B.P. penicillin preparations (cream base, 1 oz. in 2-oz. jar; solution tablets, 10,000 or 15,000 international units, in tube of ten; lozenges in roll of ten and tubes of twenty and fifty; oral tablets, 100,000, 200,000 or 400,000 units in tube of ten; ointment in  $\frac{1}{2}$ -oz., 1-oz. and 2-oz. containers; and eye ointment in 1-dr. container).

**Improved Formula.**—Imperial Chemical (Pharmaceuticals), Ltd., announce that Sulphamezathine suspension oral will shortly make its appearance in a new form. The new product, packed in a wide-mouthed bottle, is pleasantly flavoured and of increased viscosity. The Sulphamezathine content is unchanged and it is intended, therefore, to exhaust stocks of the existing formulation before advertising the new product to the medical profession. Prices also are unchanged.

**Diphtheria Pertussis Prophylactic.**—Parke, Davis & Co., Ltd., Hounslow, Middlesex, are now supplying their new product diphtheria pertussis prophylactic (W.D.P.) (red label) on all unspecified orders for the prophylactic, and the original (mineral carrier) product only when that is specified. The title "whooping cough vaccine and diphtheria prophylactic combined" is being discontinued, and the original product is being labelled

"diphtheria pertussis prophylactic" with the letters W.D.P. in green.

**Change of Pack.**—Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, state that Minster brand indigestion tablets are now



being supplied in new-style cartons and outers; the label of the 6-lb. jars has also been redesigned to match.

## PHOTOGRAPHIC NOTES

**Imported Again.**—Neville Brown & Co., Ltd., 77 Newman Street, London, W.1, announce that once again they are able to import Paxette cameras, and that the first shipments are expected to arrive in Britain early in December. Unexecuted orders on the company's books and new orders are being dealt with in rotation.

**Hand-operated Flash Outfit.**—Dufay, Ltd., Boreham Wood, Herts, are marketing a hand-operated variant of their still current Coroflash Synchro-gun. The model has a handswitch only for use by means of the open flash method. It accommodates any midget bulb, and has a release lever for fired bulbs. The price is 13s. 11d., tax-free. Supplies are available in limited quantities of a descriptive leaflet for distribution to customers.

**Interval Timer.**—In the now usual cream finish of most Ilford accessories for the darkroom, Ilford, Ltd., Ilford, offer an interval timer made for them by Smiths. The alarm may be set to sound after the lapse of any period of seconds up to two hours, the dial being marked in 15-second intervals for the larger hand and in 10-minute intervals for the smaller (with two concentric circular dials). When the prescribed time has passed the alarm bell rings for 10 seconds. The diameter of the dial is  $3\frac{1}{4}$  in.; height,  $4\frac{1}{2}$  in.

## NEW PRODUCTS AND PACKS

**Baby Powder.** — Cow & Gate, Ltd., Guildford, Surrey, recently introduced a Cow & Gate baby powder, packed in 3-oz. tins for sale through chemists only. Attractive display stands are available with initial orders of 1 doz. tins.

**Infra-red Unit.** — Mountsun, Ltd., West Mall Works, Rabbit Row, London, W.8, offer in the Mountsun infra-red prescription unit a fully enclosed 450-watt element, protected against accidental touching by a special porcelain container, with electro polished and anodised parabolic reflector directing a powerful penetrating parallel stream of infra-red rays upon the body, and a plastic, "high stability" base and adjustable joints to allow treatment in any position, including use over the bed.

**Dermatological Range.** — Genatosan, Ltd., Loughborough, Leics, announce the introduction of a comprehensive range of dermatological products which have been formulated to satisfy the requirements of the general practitioner in the treatment of the more common skin lesions. The products are safe and effective local remedies designed to deal with the vast majority of the ordinary dermatoses and in standard form so that the doctor is assured of preparations in impeccable condition. Pharmacists should already have received a copy of an introductory "*aide-memoire*" about the new products.

**A Somniferant and an Analgesic.** — The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, announce the introduction of two new medical specialities. The first is Somnesin (methylpentynol) a non-barbiturate for sleep, with the advantages of rapid action and adequate duration of action. The drug is non-habit-forming and non-cumulative. It is issued as capsules each containing 250 mgm. methylpentynol, B.D.H. The second is Tercin tablets, containing aspirin, phenacetin and butobarbitone, for the relief of less severe forms of pain such as that associated with headaches, neuralgia, dysmenorrhœa and rheumatoid arthritis. It is issued in dispensing packs only.

**Stabilised Glyceryl Trinitrate.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of Angised brand glyceryl trinitrate (stabilised). Investigations at the Wellcome Chemical Works showed that the official tablets of glyceryl trinitrate (prepared with

cocoa base) lose more than 10 per cent. of their manufactured potency per annum. Angised is a stable product with a lactose and glycerin base, and is available as Angised scored compressed products containing glyceryl trinitrate, 0.5 mgm. (gr. 1/130). Tests have shown that it retains 95 per cent. of its original potency after two years' storage at 37°C. Angised is issued for dispensing purposes only, in bottles of 100 and 500.

**A Mixed Antibiotic Preparation.** — The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 19, have introduced, under the name Distavone, a mixed antibiotic preparation with special applications. Each single-dose injection-type vial contains 300,000 units procaine penicillin G, 100,000 units potassium penicillin G and 500,000 units (equivalent to 0.5 gm. pure base) dihydrostreptomycin sulphate. The standard pack is a box of five vials. Distavone is distributed by Allen & Hanburys, Ltd.; The British Drug Houses, Ltd.; Burroughs Wellcome & Co.; Evans Medical Supplies, Ltd.; and Pharmaceutical Specialities (May & Baker), Ltd. The application of Distavone is in cases of advanced infection or mixed infection that require immediate treatment without waiting for full bacteriological examination. In prophylaxis in certain operative procedures, and where the causative organisms, because they are deep-seated, cannot be readily identified, a mixture of the two antibiotics is often used.

**Oral Cholecystographic Medium.** — Telepaque, an oral cholecystographic medium introduced by Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, is the outcome of a research study at the Sterling-Winthrop Research Institute, U.S.A., to produce a compound of higher iodine content than similar substances previously available, with the property of concentrating in the gall-bladder and, if possible, with a lower toxicity, Telepaque contains 15 per cent. more iodine than pheniodol and has one-fourth its toxicity in experimental animals. The new product has been employed clinically in Britain and the United States, where it has been found to give better x-ray pictures of the gall-bladder and bile duct, and to have less tendency to cause diarrhoea, vomiting, nausea and dysuria. Telepaque is issued in cartons of six envelopes of six 0.5-gm. tablets (the normal dose per patient).

## ANNUAL DINNER IN CORK

RETAIL, wholesale and manufacturing interests were all represented at the annual dinner of the Cork branch of the Guild of Pharmacy held in Cork on October 28. Mr. J. J. Regan (vice-chairman of the Guild) presided and the guests included

ber of the Society's Council) who congratulated Mr. Kissane on his re-election as president of the Society. With the toast he associated the names of Messrs. Coleman and Smith and the medical representatives present.



**Left :** The committee of the Guild, with the president and registrar of the Pharmaceutical Society of Ireland. Among those standing in the back row are Messrs. C. D. O'Shea and R. Daly (Council members) and Mr. E. J. MacSweeney. **Right:** The president presents his medal to Mr. M. Murphy.



**Left :** Some of the coming young men in the profession from Cork city. **Right :** A group of Cork lady pharmacists and assistants.



Manufacturers and wholesalers from the South.

Mr. J. P. Kissane (president of the Pharmaceutical Society of Ireland), Mrs. Kissane, Messrs. J. G. Coleman (registrar) and H. G. Smith.

The toast, "The Republic of Ireland," having been honoured, "Our Guests" was proposed by Mr. C. D. O'SHEA (a mem-

MR. KISSANE, replying, said that some present might ask why the expenditure in providing a new college of pharmacy had been made, and why the new educational scheme had come into operation. The Society was responsible for providing adequate training for its licentiates. That training must be in keeping with modern trends. It was imperative that Irish licentiates should measure up in training and equipment to those of other progressive States. The day had passed when apprenticeship, coupled with part-time lectures, would achieve a pharmaceutical education of the standard demanded.

Mr. Kissane said that his attention had been drawn recently to a report of the proceedings of the City of Cork Vocational Education Committee, at which the new scheme had been criticised on the grounds that Cork students would be

obliged to attend the College of Pharmacy in Dublin. As a Munsterman he would like to see a Cork student doing his course in Cork. He was opposed to undue centralisation, but in a small country, with a small percentage of the young people taking pharmacy, a college of the character and status required could only be provided in one centre.

Another subject of interest to those present was the coming new health services. The Council had been giving its earnest consideration to that question for many months, and a deputation from the Society was being received by the Minister for Health that week. They would do their utmost to see that the Society's members received fitting recognition.

MR. W. A. FIELDING, proposing "The Guild of Pharmacy" paid tribute to the services rendered to the Guild and to pharmacy in Cork by Mr. Dominic O'Shea

and outlined the history of the Guild from its inception. So far as the records revealed, their type of organisation was unique. The Guild represented pharmacy in all its aspects. It had succeeded in placing two worthy representatives on the Council of the Society in Mr. Richard Daly in 1945 and Mr. O'Shea in 1948.

MR. R. DALY (a member of the Society's Council), responding, said that the Guild represented a cross-section of pharmacy and brought people together for the good of the profession.

A programme of music and entertainment followed.

During the evening Mr. Kissane presented medal awards to the following Cork students: Matthew Murphy (first in first-year chemistry and botany); John Wilson (first in second-year materia medica and chemistry); and Michael J. O'Donoghue (first in third-year pharmacy).

## MANCHESTER

THE opening meeting of the 1952-53 session of the Manchester Pharmaceutical Association was held in the pharmacy department, Manchester University, on October 22, Mr. R. E. Parry (president) in the chair, when the annual prize-giving of the department took place.

### Report on the Session

PROFESSOR H. BRINDLE, presenting his report for the 1951-52 session of the department, referred to the institution of an honours school of pharmacy in the university. It was a four-year course, he said, and all accepted students would have had to reach intermediate B.Sc. standard before joining it. Students might specialise in the subjects of pharmaceutical chemistry, pharmaceutics, pharmacology or pharmacognosy.

Professor Brindle said that the Allen & Hanburys Fellowship had been awarded to Mr. N. H. Booth, the Woolley scholarship to Mr. J. Thomas, and the Alfred Lucas Blain scholarship to Mr. J. D. Morgan. Dr. Winifred G. Keepe had been awarded a Charter travelling scholarship of the Pharmaceutical Society and had spent the year under review in Italy. The Rammell studentship had been awarded by the Society to Mr. A. Tallentire who was in the second year of his research (his third year at the university). A number of pharmacy students had been selected to represent the University in various athletic events.

## PRIZE GIVING

Additional rooms which had been granted to the Department gave an increase in floor space of over 30 per cent.

Research in the department was being carried out on enzyme systems and their relationships to drugs, particularly local anaesthetics; the assay of enzymes; synthesis of possible local anaesthetics, and of quaternary compounds which might have enhanced bactericidal properties; the active principles of ergot and digitalis, and the assays of those two drugs; the quantitative determination of insect infestation of crude drugs; histological diagnostic characters of drugs; processes involved in the formation of alkaloids and allied substances in plant tissues; the behaviour of bacteria in oils and powders and similar systems of low moisture content, etc. A small laboratory had been equipped for the purpose of using radioactive materials as aids to research. He believed that his was the only school of pharmacy at the present time to possess such equipment. Six research papers had been published from the department during the year in the "Journal of Pharmacy and Pharmacology."

### Prize-winners

The prize-winners during the session were as follows (donors are named in italics):—

*Boots, Ltd.*, Arthur Peake. *Evans Medical Supplies, Ltd.*, Sidney S. Freedman. *James Woolley, Sons & Co., Ltd.*, James A. Grundy. *Hough, Hoseason, & Co. Ltd.*, Warren A. Rubins. *Heath*

*Bros. & Sons, Ltd.*, James A. Grundy. *Allen & Hanburys, Ltd.*, Brian Dawson. *Thomas Kerfoot & Co., Ltd.*, Kenneth E. Levison. *E. Griffiths Hughes, Ltd.*, K. A. Whittaker. *President of the Association*, Donald M. Howard. *Manchester Pharmaceutical Association*, John B. Carr. *Pharmaceutical Society*, Geoffrey Richardson. *Chairman, Manchester and Salford Branch*, John Buckles. Mr.

## LEICESTER STUDENTS

A TABLE well laden with prizes is a good starting-point for any prize-giving, but the more numerous they are the more like a catalogue a report of the proceedings is apt to seem. At Leicester College of Technology, where the school of pharmacy held its prizegiving on November 6, two factors operated to prevent any dullness in the published report. The speeches were judiciously blended of information and humour, and some of the students reduced the prize list by taking several at once.

### When Prizes Were Fewer

The chairman of the Leicester and Leicestershire Branch of the Pharmaceutical Society (Mr. Clifford Sampson) presided. Mr. SAMPSON was reminiscent about his student days at the College, when there were nowhere near so many prizes; courses were part-time (evening classes after an 8.30 a.m. to 7 p.m. day in the shop and two lectures on the half-day), and spread over 2-3 years for each part of the examination. One thing that had not changed, he said, was the ideas and ideals of the profession.

A report on the year's work by Mr. COLIN GUNN (head of the department) mentioned research work carried out at the school by Mr. Harold Fowler, who had presented two papers at the Nottingham Conference; the fact that the College was one of only four provincial centres recognised by London University for its new Honours degree in pharmacy; and the students' athletic prowess in coming within one point of a third victory in the College championship. The year's results in the degree course had been disappointing, and the staff had their own ideas about why, but present students could have reasonable confidence if they heeded the wise words of their teachers. Enrolments this year gave a full quota of sixty-four Ph.C. and thirty-one degree students.

The presentation of the prizes was carried out by Miss M. A. BURR (a member of the Pharmaceutical Society's Council) who said she could see that there were present some of those outstanding pharmacists that every age produces. Miss BURR

C. W. Wanless, Kenneth G. Ainley.

The prizes were presented by MR. C. V. MAPLETHORPE (chairman of the Society Education Committee) who gave an address in which he outlined the history of pharmaceutical education under the Pharmaceutical Society.

## RECEIVE THEIR PRIZES

described the activities of Council committees, showing how they carried out the four Charter functions of education, the advancement of chemistry and pharmacopoeia, benevolence, and protection, and urged the students who had qualified to be active in their responsibilities as members of the Society.

The winners of prizes were:—

A. F. BRAMHAM (School prize for public spirit and progress). P. C. COLE (second Dalmas prize). P. C. COLE and R. D. MORTIMORE (British Dr Houses prize). A. W. CUTHBERT (Ph. and B.Pharm. course prize). G. V. DAWS (Ph.C. and B.Pharm. course prize for best practical books). Miss J. FAULKNER (prize for best practical books in C. and D. course). Miss FAULKNER and Miss M. E. WARD (first Genatosan prize for display). Miss M. M. GAYTON (Intermediate course prize, B.Pharm. section). I. G. GLENT and J. N. STANLEY (second Genatosan prize). Mr. E. A. HARRIS and W. D. MILL (Hannam trophy for dispensing and Charnings prize). Miss D. V. HORSMAN (Evans prize for pharmaceuticals). C. LEWIS (Butler prize). R. D. MORTIMORE (Pharmaceutical Society prize for best student association and Young Memorial prize). C. H. PALMER (Intermediate course prize, Pharmaceutical Society section, and prizes in biology, chemistry and physics). Miss M. E. WARD (first Dalmas prize). Numerous certificates were also presented.

A vote of thanks to Miss Burr was proposed by MR. H. BREAM (chairman of the advisory committee of the school) and seconded by Miss MARGARET PARKER.

## UMNEY PRIZE-WINNER

FOR the fourth year in succession the Umney Memorial prize has been won by former student of the school of pharmacy, Leicester College of Technology. This year's winner, Miss Joan Faulkner, M.P.S., aged twenty-one, served her apprenticeship with Gibson & Co. (Chemists), Ltd., Burton-on-Trent. She is now employed at Coventry.



# WHAT STUDENTS DO ALL DAY

By Margaret A. Parker

(In an address at the prize-giving of the school of pharmacy, Leicester)

WHEN Mr. Gunn first asked me to make this speech I was perplexed as to how to begin it. You can begin a speech in many ways. Some people say "I have great pleasure in speaking tonight," but it gives me no pleasure; I feel absolutely terrified. Or you can say "I am not used to talking," but, as anyone in the department will tell you, I am very used to talking. Or you can say "I know you are all anxious to get home," but it is probably pouring with rain outside, and you want to stay here as long as you can. You might say "I am not going to speak for very long," but it seems to me too good an opportunity to waste, with you all sitting there, unable to answer me back.

## or the Benefit of Non-pharmacists

Tonight, then, I am going to speak to the non-pharmacists here. I went to a similar function given by artists once, and was bored stiff. They were talking about Picasso, Rembrandt, and Giles—I didn't understand a word. There must be many of you feeling the same tonight, those who don't know anything about pharmacy—the landladies, the parents, the B.Pharm. cond-year students. So I am going to tell you what we do here all day.

Classes start at nine o'clock. At least, think they do. I have never yet been sure to find out. We enter the great porch a few minutes after nine, and we are faced with three flights of stairs. There has been some amazement expressed at the success of this department at the College sports. Everyone knows that we are the hardest-worked people in the College, and the staff have been heard to wonder when we do our training. They will continue to be in ignorance as long as they take the lift.

When we eventually arrive at our floor we are faced with four possibilities, and think it is a case of choosing the lesser of four evils. We can do chemistry. Now, when I first started to study pharmacy, people used to sometimes ask me what I was doing. When I replied "pharmacy," there used to be a horrible silence for a few minutes, because no-one really knew what that was. Then one of the brighter ones would venture, "Ah! that's chemistry, isn't it?" And I would reply: "Of course it's not chemistry, it's pharmacy." However, I am beginning to wonder now.

Or we can do pharmacognosy. Now I have thought and thought, and I can't think of anything to say about pharmacognosy. It seems to me to serve two useful purposes. It provides us with a good set of abbreviations which we can use when taking notes in other subjects; and, as Mr. Gunn has pointed out, it provides us with one subject in which we can pass in our degree.

Pharmaceutics? Well, pharmaceutics is supposed to be the most important subject we do. I'd like to tell you here something about our dispensing prize, the Hannam trophy, which you have just seen presented. Our group is hopeless at dispensing, so this year we had rather a brainwave. We thought we would each do one preparation on our bench (we work four to a bench) and then one person could hand in the four preparations, and we would share the prize money. We ought to have known, actually, that had anyone on our bench handed in four good preparations the staff would have immediately smelt a rat. However, we were intent on carrying out our plan, and we walked in very smugly, looked at the poor staff, and thought: "Ah! We've got you here." I was to do preparation number two, so I was rather pleased, as this is usually the easiest on the paper. We get a sterilisation question first, and then they give us an easy one to bring us round again. I took my question paper, leisurely glanced at question two. It was in Spanish!

## Dubious Activities

The fourth thing we can do is physiology. Well, my auntie always regards physiology with a bit of doubt after hearing some of the things we do. There are the anaesthesia experiments. One student was known to go up to a member of the staff and slap him very heartily on the back after a few whiffs of anaesthetic. Then there are these experiments which call for the subjects running down to the basement and back again. We meet all sorts of people on the stairs, and we just have to wave, and call in passing: "Sorry, can't stop, doing an experiment."

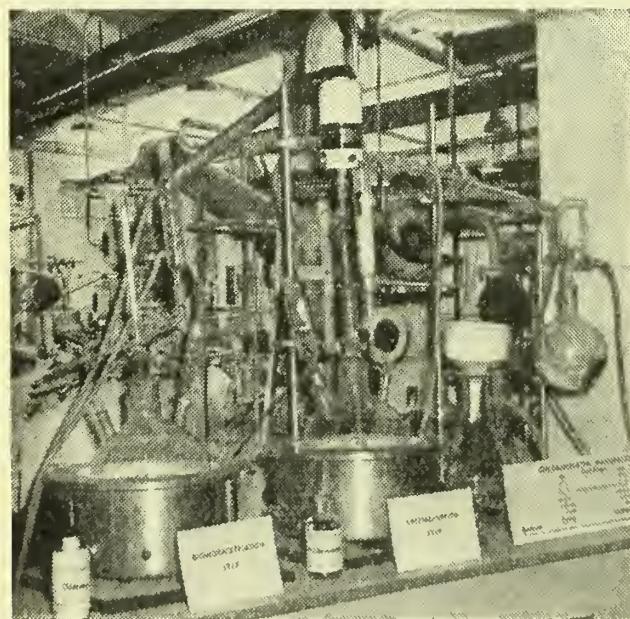
Well, there you are, all you landladies and parents: that's what we do all day. Your students may spin a yarn about all the hard work we do—don't you believe them. We have lots of fun really.

## LONDON MEDICAL EXHIBITION

MANUFACTURERS and other exhibitors to a total of 120 took space at the 1952 London Medical Exhibition, November 17-21.

On show for the first time was a new range of dermatological preparations produced by GENATOSAN, LTD. (see also p. 703). The range includes Acudex (a lotion for treatment of the acute stage in dermatoses); Zichthol (a zinc and ichthammol cream for the subacute stage); Zichthol green (when secondary sepsis is present); Pixcyl (the active fraction of tar in a polyethylene glycol base); Prurex cream for itching dermatoses; Dipsor (a dithranol cream); Procelium for fungal infections; and Rosul (a covering cream). Locan, an anti-pruritic preparation, was shown by ALLIED LABORATORIES, LTD.

Sentests, designed to test whether given organisms are sensitive to antibiotics, was shown by EVANS MEDICAL SUPPLIES, LTD. C. L. BENCARD, LTD., featured their allergy-testing service. A list of 750 allergens available by return of post from stock as skin-testing solutions, or for the preparation of specific desensitising solutions, was shown.



An exhibit at the stand of Parke, Davis & Co., Ltd., showed the dichloracetylation and crystallisation steps and last stage in the manufacture of Chloromycetin.

BOOTS PURE DRUG CO., LTD., showed a new type of single-dose cartridge container—Viules—for stable, sterile solutions for parenteral use. Viules are glass cylinders sealed at both ends by rubber diaphragms and are inserted in a special all-metal syringe, only the detachable needle-mount of which need be sterilised. One

diaphragm acts as a plunger and the solution is expelled by means of a piercer needle through the other diaphragm.

A newly produced hormone dosage "draw-slide" was distributed at the stand of ROUSSEL LABORATORIES, LTD.—ORGANON LABORATORIES, LTD., showed their Sublings of methyltestosterone and DOCA (see p. 702). — Oxo, LTD., showed Miotrol (a synergistic combination of oestrogen and androgen).

Rose-hip syrup, now made entirely from Scottish hips, which are said to have a higher vitamin-C content and to impart a more pleasant flavour to the syrup than those from England, was featured by PAINES & BYRNE, LTD., who also showed their Vitepron vitaminised liver extract capsules.—A new eleven-vitamin capsule, Wandervite, was shown by A. WANDER, LTD.—A vitamin-B complex plus vitamin C combination called Betalin Complex F.C. in ampoules was shown by ELI LILLY & Co., LTD.—G.F.4. liver-concentrate tablets were seen at the stand of KYLON, LTD.—VITAMINS, LTD., showed Befortiss-B complex concentrated tablets. — Vibelan forte tablets for routine administration to patients receiving antibiotics or other drugs which might cause changes in the intestinal flora were shown by THE BRITISH DRUG HOUSES, LTD.

Albucid nasal drops were introduced at the exhibition by BRITISH SCHERING, LTD., who also showed their "alternative to the barbiturates": Oblivon capsules.

A new quaternary ammonium compound, Octaphen, was shown by WARD, BLENKINSOP & Co., LTD.; and a new contrast medium, Dionsil; and Conthyrid (for the treatment of thyrotoxicosis) by GLAXO LABORATORIES, LTD.

Allevin, a new analgesic tablet based on salicylamide, was shown by HERTS PHARMACEUTICALS, LTD.; and Codis (soluble aspirin with codeine and phenacetin) was featured by RECKITT & COLMAN, LTD.

Sanescol, for the treatment of colonic infection, was shown by H. R. NAPP, LTD.; and Delkodon, for the treatment of colon spasm and non-specific ulcerative colitis, by SHARP & DOHME, LTD.

Among products for the treatment of gastro-duodenal ulceration were Tabnet by CALMIC, LTD.; Gelusil suspension by WILLIAM R. WARNER & Co., LTD.; and Anavitin by the THERAPRODUCT LABORATORIES.

Newer anticoagulants shown included

Dindevan by EVANS MEDICAL SUPPLIES, LTD., and Tromexan by PHARMACEUTICAL LABORATORIES GEIGY, LTD.

Hepathyl lipotropic compound for the readjustment of lipid metabolism was shown by C. L. BENCARD, LTD.—Acimenton, a tablet with similar applications, was shown by CONTINENTAL LABORATORIES, LTD.

Among surgical sundries displayed were Surgylon Nylon elastic net surgical stockings by FASSETT & JOHNSON, LTD.; and the Poroplast elastic adhesive bandage (containing no rubber or irritating solvents) by the SCHOLL MANUFACTURING CO., LTD.

A mixture of Distaqueine forte and dihydrostreptomycin—Distavone (see p. 703) has been issued by the DISTILLERS' CO. (BIOCHEMICALS), LTD. They pointed out at the exhibition that there is no justification for its use in the treatment of infections that respond well to penicillin alone.

Dextraven, a new product of BENGEL LABORATORIES, LTD., consists of the optimal molecular fraction of dextran; 60 per cent. of the preparation is claimed to remain in the circulation after twenty-four hours.

A new parasympathomimetic drug, Mechothane, made by SAVORY & MOORE, LTD., is claimed to be less toxic than carbachol and therefore likely to replace that drug.

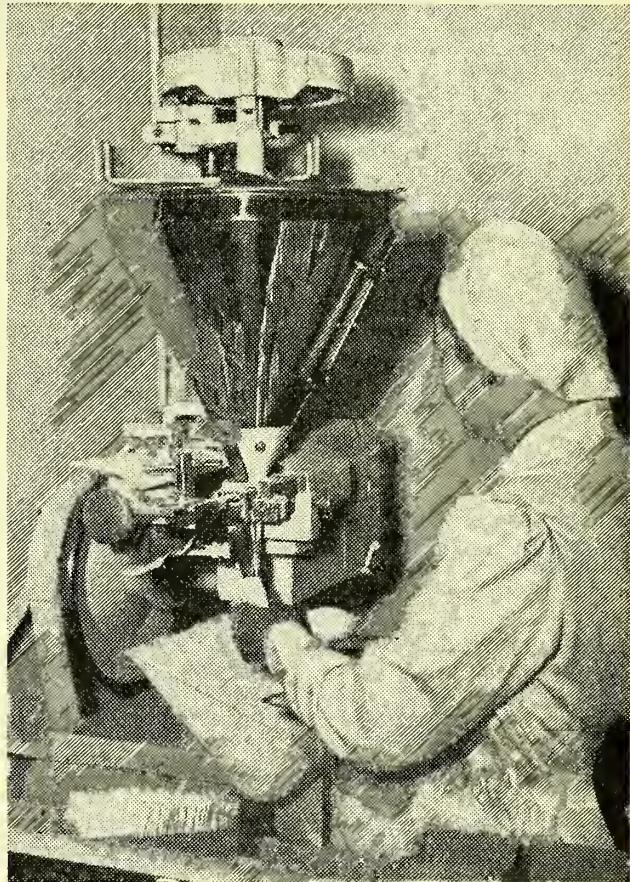
Guttolin sterile solutions for ophthalmic, nasal and aural use were featured by BENGUE & CO., LTD. The glass vial delivers drop by drop.

A new dépôt solution for prolonged local anaesthesia, Efocaine and Mephosol, for the relief of pain in arthritis and allied conditions, was shown by the CROOKES LABORATORIES, LTD.

Among other new or recent products were:—Telepaque cholecystographic medium by BAYER PRODUCTS, LTD.; an oxytocic preparation, Methergin, by SANDOZ PRODUCTS, LTD.; a new preparation, Cerumol, by KYLON, LTD., for TAMPAX, LTD., for the treatment of wax in the ears; Carbo-resin, a mixture of anion and cation exchange resins for control of oedema, shown by ELI LILLY & CO., LTD.; Butazolidin (PHARMACEUTICAL LABORATORIES GEIGY, LTD.) the new pyrazolone derivative for the treatment of rheumatic diseases exhibited for the first time; an intravenous purified sodium PAS crystalline salt (Aminacyl) for immediate high blood level by A. WANDER, LTD.

ALLEN & HANBURYS, LTD., featured Alficetyn Nonad tulle and Alficetyn dusting powder.

THE ARMOUR LABORATORIES showed Amfac Glanules (now more readily available).



Machine used by the British Felsol Co., Ltd., for filling Felsol powders was shown at the company's stand.

BURROUGHS WELLCOME & CO. showed Angised tablets of stabilised glyceryl trinitrate; Vasylox, a new nasal decongestant; and Lethidrone, an antagonist of morphine, pethidine amidone and related analogues.

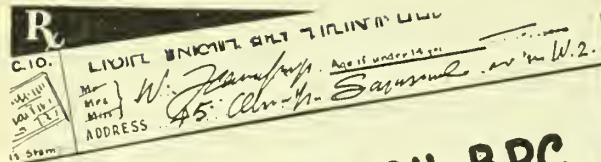
CIBA LABORATORES, LTD., showed Bradosol lozenges for throat and mouth infections.

EDWARD GURR, LTD., showed, among other new products, Suprees, an inorganic product for cleaning microscopic slides and glassware; Cristalite, a microscopic mountant superior to Canada balsam in xylol; and Fluormount, a mountant for fluorescent microscopy.

GEORGE T. GURR, LTD., showed the new Aquax water-soluble embedding wax for microscopical use and Gurr's glass writing ink for use directly on glass.

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., showed Mysoline tablets for treatment of grand mal epilepsy.

Space is not available for dealing with the numerous other excellent displays.



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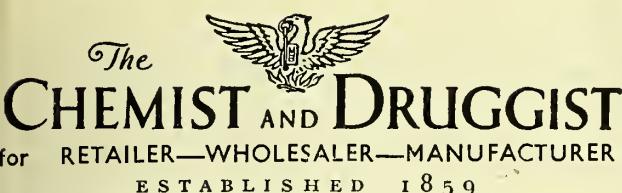
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Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades throughout the World

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

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## No Lack of Initiative

SCARCELY a week passes by without some criticism being levelled at British industry for the time it takes to translate the fruits of laboratory research into mass-produced articles for the consumer market. Unfavourable comparisons are usually drawn between Great Britain and the United States without any inquiry as to the reasons for any differences.

The chairman of Glaxo Laboratories, Ltd. (Sir Harry Jephcott) shows, in his statement accompanying the company's annual accounts (see p. 698), that he does not share the belief that the British manufacturer is, in general, lacking either in readiness to appreciate the value of a new discovery or in desire to transform the new knowledge into products that will appeal to the potential user. Sir Harry points out that the manufacturer in Great Britain is always faced with difficulties that are not of his own making. Development requires a pilot plant, and that, in turn, normally requires new buildings and new plant involving capital expenditure. Delays are unavoidable before the necessary licences to erect buildings and obtain steel are secured—and even when secured they may be post-dated. Government restraint on capital expenditure, and the knowledge of inevitable delays, he believes, cast a shadow on the rate of progress of new schemes and can seriously reduce enthusiasm.

Moreover, if development is to be rapid, more than ordinary risks must be taken. Most industrialists would be prepared to

take those risks in their stride but the knowledge that the Government will take 80 per cent. of any increase in profits scarcely gives encouragement to develop a new discovery with "breakneck speed and unrestrained energy." That is, of course, painfully true, but so, too, is the fact that the Chancellor of the Exchequer must find money from somewhere to pay for the national defence programme and the social services. According to the latest figures in our possession 7.4 per cent. of the national income was spent on the armed forces, whereas only 5.9 per cent. of the income of the United States was spent by that country for the same purpose in the same period. It is a fact, too, that no comparable expenditure to the cost of social services in Britain has to be met by the U.S. Government. Last, but by no means least, Great Britain is so largely dependent on the outside world for raw materials that licences and restrictions are inevitable unless sufficient exports are shipped overseas to create a far greater trade balance with the outside world in general and the dollar areas in particular than exists at present. It would be well for the critics to bear these facts in mind when they feel the urge to draw comparisons between the two countries in the future. Perhaps, on level terms, our manufacturers would show up quite well.

## Pattern of U.K. Trade

THE now familiar pattern of declining imports from non-sterling countries and declining exports to sterling countries continued in the July-September quarter. Almost the whole reduction in imports this year has been in arrivals from non-sterling countries which, from a monthly rate of £209 millions in 1951, have fallen to £148 millions per month in the third quarter. Imports from the sterling area showed little change in either the first half or the third quarter of this year from the corresponding periods in 1951. On the other hand most of the decline in exports this year has been in shipments to the sterling area; in the third quarter they averaged only £88 millions per month, against £109 millions in 1951, whereas shipments to non-sterling countries in the third quarter, although £6 millions per month less

than in the first half-year, were only just over £2 millions below the 1951 average.

A new feature of the area pattern of United Kingdom exports in the quarter, which averaged £18 millions per month less than in the second quarter, was the reduction of £6 millions per month in shipments to non-sterling countries. Exports to the dollar area and to the non-sterling O.E.E.C. countries and possessions remained much the same in value as in the second quarter; the whole of the reduction occurred in shipments to the remaining non-sterling countries, with most types of exports affected. The reductions in exports to the sterling area (12 millions per month less than in the second quarter) were spread over a wide range of manufactured goods including chemicals.

The United Kingdom continued to earn a surplus during October in its trading with other European Payments Union countries. During that month the surplus was over £34 millions, which has been settled in gold. Switzerland and Austria were the only other countries to earn a surplus—that of the U.K.'s being thirty times greater than either of those countries. The change has been brought about mainly by the severe import cuts imposed in Britain. If the trend continues, sooner or later a relaxation of those restrictions will become necessary, for other countries will find themselves in the same predicament as faced the United Kingdom a year ago. However, large deficits incurred previously have left this country in debt to the Union to the extent of £225 millions, and over £150 millions has been paid over in gold. Now the reverse process is taking place, but it will be some time before the country is in credit again and until then it would be wrong to expect a great deal of relaxation. It continues to be true that only by the positive action of increased exports and not by a negative policy of restricted imports can this country hope to reach a position of stability.

### A Nought Too Many

THE "apparent unconcern" we remarked upon (*C. & D.*, November 15, p. 673) in the attitude of all concerned at the quantity of nasal drops on a prescription con-

sidered recently by the London Pharmaceutical Committee is now explained. In the report which we received, a typist error had increased to 10 oz. the actual amount of 1 oz. ordered. In the documents before the Committee and the Ministry the amount had been correctly stated.

### Further Studies of the Cold Virus

AN appeal for more volunteers at the Common Cold Research Unit, Harvard Hospital, Salisbury (see p. 694), came perhaps fortuitously, at the beginning of the common cold season, and coincides with a change in tactics in the Unit's war against the elusive cold virus. Having failed in the first battle—that of finding a convenient medium (for example, eggs or laboratory animals) in which to grow the virus—the Harvard Hospital workers are now falling back on attempting to grow the virus less conveniently in living human tissues. Despite the lack of success, so far in the first objective, the Unit has, with the help of the 3,000 volunteers who have already taken part in the trials, gathered considerable information. Perhaps the most surprising fact and one at which those at whose counters cold sufferers congregate may take heart is that natural cross-infection is low. It was found in trials, in fact, that of thirty-two healthy subjects who remained in close contact with cold sufferers for two hours, only three caught the infection. Contaminated hands or handkerchiefs readily transferred the infection but the virus was thought to be easily killed by drying, for contaminated material placed on the outside of the nostril of healthy subjects produced no colds.

### SIXTY YEARS A SUBSCRIBER

SIR, — My first subscription to the *C. & D.* was sent as a "junior," aged twenty, in 1893. This one is sent as a retired pharmacist and occasional locum, aged seventy-nine — a long spell without a break for both reader and the *C. & D.* The "reader" has not many years to go now, but I hope the *C. & D.* will continue for another century. It is wanted, if only as a check on the "official" attitude.

Pewsey, Wilts.

W. P. WALKER.

## CORRESPONDENCE

**Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor**

### Lapis Hibernica

SIR,—One of my friends has been recommended to take Irish slate for an acute attack of lumbago, and has managed to find some of this, which, surprisingly enough, seems to have eased his pain. Amongst our close circle of friends, this Irish slate has caused some interest, but inquiries amongst pharmaceutical colleagues fail to elicit any information about the composition or history of the compound other than the rather humorous suggestion that it might be a bit off the blarney stone. This compound seems to be fairly well known in the Manchester district, where there are a fair proportion of Irish people, and as a matter of great personal interest should be obliged if you could let me know something about its history.

Manchester, 12. J. E. PICKERING.

### The Unqualified and their Claims

SIR,—Your correspondent "Chemist ashamed" (*C. & D.*, November 15, p. 76) appears to be unaware that the 1913 N.H.I. regulations allowed the unregistered man who had dispensed for a doctor for three years to dispense prescriptions without the supervision of a pharmacist; I know, because I happened to be one of them, and have dispensed any thousands of these prescriptions, quite a number of which have been tests." All were passed as correct.

#### "UNREGISTERED."

SIR,—It would be of interest to know how many (if any) persons have died as a result of mistakes in dispensing, and how many mistakes have been made in st prescriptions, by (1) chemists and (2) persons not registered. I think it would be found that the latter would come out of the inquiry with flying colours. It will help the profession and all concerned when we settle this little difference. Let us remember we are all trying to live and let die. Bad feeling on either side is wrong. Whatever we may think, say or do, the plain fact is that chemists are quite unable to cope with present-day dispensing without help.

Portslade.

W. CORRY.

### "Disguised Ethicals"

SIR,—I believe myself to be a reasonable person and I assure Mr. C. H. Patrick (*C. & D.*, November 1, p. 606) that I ap-

preciated fully the real intention of his original letter. As a pharmacist I appreciate also that the private man would indeed be foolish to turn away unnecessarily any prescription, whatever its content. Let him therefore, in turn, be a little reasonable himself. Does he seriously suggest that a proprietor pharmacist turning out an "own name" dispensary product can be compared with a manufacturer with clinical trial facilities, research and standards divisions turning out a medical speciality? Also, can he dare suggest that such manufacture by the company in question is a new development? I suggest that Mr. Patrick, even though he may feel he has a grievance, should at least keep a sense of proportion in his rather wild statements about a company which I venture to suggest was manufacturing medical specialities before he had himself entered pharmacy. To "Scottish Chemist" I would suggest that the use of a telephone or the postal service would save a long journey.

Yours faithfully,  
Dublin. BRANCH MANAGER.

### Finances in Ireland

SIR,—I notice that Mr. Peter Bardon (*C. & D.*, November 8, p. 639) is concerned that the ten-guinea life members of the Pharmaceutical Society of Ireland may have got more than value for their money. As a life member of the Society for the past twenty-two years, I should like to point out that, when I paid my subscription £10 10s. was £10 10s. and represented more sweat and toil, then, than the present life membership subscription does today. Furthermore, the Society had the use of my money for a considerable period and presumably made it earn its keep by investment. If I had died within a year of paying my subscription does Mr. Bardon think that the Society's treasurer should have refunded a portion of my subscription to my dependants?

Yours faithfully,  
Greystones, THOMAS LARKIN.  
co. Wicklow, Eire.

SIR,—I was shocked to read Mr. Bardon's letter in your issue of November 8. Surely an honourable man, or Society, keeps without whining a bargain which he, or it, has freely made. If I possessed Mr. Bardon's mentality I would ask for

statistics of those who died less than ten years after becoming life members. I believe I am the oldest life member of the Pharmaceutical Society of Ireland (the dates given in the Calendar are of qualifying, not of becoming life members). I qualified in 1904, and within a week, though I could ill-afford it, implemented a promise I had made by paying £1 1s. to the Society and becoming a member. I believe I paid a second guinea, but, be that as it may, Mr. A. T. Ferrall (the registrar) suggested to me that I should become a life member, for, as he said, "It will save you trouble and may save you expense. Anyhow, if you don't live

ten years you won't miss the money!" I managed to save the £10 10s. out of my hard-earned salary and paid it. When I say "hard-earned" I mean that literally. I was manager of a branch pharmacy, getting £100 per annum, and we had to work hard in those days: from early morning till late evening. There were no half-days then, and the hours on Sundays and Bank Holidays were only slightly shorter than on ordinary days. We daily compounded pills, plasters, suppositories, etc. We did not simply dispense them by scraping off a proprietary label and substituting one of our own.

Yours faithfully,  
HENRY J. SUMNER, M.P.S.I., P.C.

## N.H.S. FIGURES OF A COUNTRY CHEMIST

FROM all over the country come groans and moans from chemist contractors under the National Health Service but little of a practical nature is forthcoming, nor has any appreciable help or hope come from the long-drawn-out efforts of our two official bodies, the Pharmaceutical Society and the National Pharmaceutical Union.

Only by facts and figures openly stated can the true position of any undertaking be examined and assessed and so, pocketing my pride, I propose to expose the figures of my N.H.S. dispensing for the year ended November 1951, and trust that in so doing I will be enabling the hundreds of cases similar to mine to be reviewed in a clearer and truer perspective.

Let it be emphasised that the Government is having the advantage of:—

1. The services of a pharmacist every day and night and even on Christmas day.

2. A dispensary provided free of rent and rates.

3. Electric light free of charge.

4. Free delivery service. In the calculation of remuneration replacements are not taken into account (for example, a new balance, purchased at a price of £9 2s. 6d.).

5. Postage or telephone charges are paid by the contractor on orders. The contractor pays for the cleaning of the dispensary; corks and labels, heating, gas, etc.; he pays the fee for compulsory registration of premises, part of the value of which is obviously to the account of the Government, and fire insurance, and must carry stock valued at £300 to meet the scheme (say 5 per cent. overdraft on £300).

All the above expenses, plus one's own N.H.S. contributions, must come out of the £301 14s. 11d. fees. A substantial amount must be deducted from that figure to show the net profit on a year's work. Truly the State has the better of the bargain. Can the retail pharmacist afford to give so much and receive so little? The ever-increasing costliness of present-day medicines is another worrying factor, often

resulting in an increased overdraft. If the present trend of national prescribing continues, then the only outcome for National Health dispensing is that it should be done in State dispensaries, with salaried pharmacists and State purchase of the expensive drugs and appliances—D.W.

Month	Scripts	Forms	Total	Cost of Drugs	Fees	Containers			
							£	s.	d.
Dec. '50 ..	484	337	54 6 8	24 2 9	27 13 6	2 10 5			
Jan. '51 ..	569	320	55 7 1	20 6 7	32 1 3	2 19 3			
Feb. ..	453	329	45 1 10	16 8 4	26 6 4	2 7 2			
Mar. ..	531	381	55 2 4	21 13 1	30 14 3	2 15 0			
Apl. ..	449	313	45 19 7	18 6 2	25 6 8	2 6 9			
May ..	500	354	60 7 10	30 10 7	27 5 2	2 12 1			
June ..	493	325	56 2 11	27 3 5	26 8 8	2 10 10			
July ..	393	277	41 11 4	18 0 1	21 10 4	2 0 11			
Aug. ..	352	245	40 4 11	17 15 10	20 12 10	1 16 3			
Sept. ..	324	214	38 11 2	19 8 0	17 9 5	1 13 9			
Oct. ..	451	308	52 11 10	25 13 10	24 11 3	2 6 9			
Nov. ..	406	283	47 6 11	23 9 8	21 15 3	2 2 0			
TOTALS ..	5,405	3,686	592 14 5	262 18 4	301 14 11	28 1 2			

# APPROVED NAMES

THE following supplementary list of approved names for drugs has been published by the British Pharmacopœia Commission (see also C. & D., August 2, p. 130):—

APPROVED NAMES	OTHER NAMES
Azamethonium bromide	3 - Methyl - 3 - azapentane - 1 : 5 - bis (ethyldimethylammonium) dibromide; Pendiomide
Benzylalkonium chloride	Alkylbenzylidimethylammonium chloride; Zephiran chloride
Caramiphen	2-Diethylaminoethyl 1-phenylcyclopentane - 1 - carboxylic acid; (Parpanit is the hydrochloride)
Chloropyrilene	N-5-Chloro-2-thienylmethyl-N' N'-dimethyl-N-2-pyridylethylenediamine
Chloroquine	7-Chloro-4-(4-diethylamino-1-methylbutylamino) quinoline; Aralen
Co-carboxylase	Pyrophosphoric ester of aneurine
Dextran	3 - Amino - 4 - hydroxyphenyl - dichloroarsine
Dichlorophenarsine	Tetraethylthiuram disulphide; Antabuse
Disulfiram	2 - (α - 2 - Dimethylaminoethoxy - α - methylbenzyl) - pyridine; Decapryn
Doxylamine	4 - Mandeloyloxy - 1 : 2 : 2 : 6 - tetramethylpiperidine; Euphthalmine
Eucatropine	2 : 5-Dihydroxybenzoic acid
Gentisic acid	1 - Aminopropane - 1 : 3 - di-carboxylic acid
Glutamic acid	1-Hydrazinophthalazine; (Appresoline is the hydrochloride)
Hydralazine	2-Dimethylaminoethyl 4-n-butylamino-salicylate
Hydroxamethocaine	Mixture of N-(3-hydroxymercuri - 2 - methoxy - propyl - carbamyl) succinamic acid and theophylline; Mercuhydrin
Meralluride	Disodium salt of N-(3-carboxymethyl - thiomercuri - 2 - methoxypropyl) camphoramic acid; Thiomerin sodium
Mercaptomerin sodium	Mixture of the sodium salt of N - (3 - hydroxymercuri - 2 - methoxypropyl) camphoramic acid and theophylline; Mercuzanthin
Mercurophylline sodium	2 - Diethylaminoethyl xanthan - 9 - carboxylate me - thobromide; Banthine bromide
Methanthelinium bromide	N'N' - Dimethyl - N - phenyl - N - (2 - thieryl - methyl) - ethylenediamine; (Diatrin is the hydrochloride)
Methaphenilene	Sodium iodomethanesulphonate; Skiodan sodium
Methiodal sodium	αβ - Diethyl - 4:4' - dihydroxy - 3:3' - dimethyl - stilbene

APPROVED NAMES	OTHER NAMES
Methy.ergometrine	(+) - 1 - Hydroxy - 2 - butylamide of (+) - lysergic acid; (Methergin is the tartrate)
Neocinchophen	Ethyl 6 - methyl - 2 - phenyl - quinoline-4-carboxylate
Oxyphenonium bromide	2 - Diethylaminoethyl α - cyclohexyl - α - phenyl - glycolate methobromide; Antrenyl
Pentaquine	6 - Methoxy - 8 - (5 - isopropylaminoamylamino) - quinoline
Phentolamine	2 - N - m - Hydroxyphenyl - p - toluidinomethyl - iminazoline; (Rogitine is the hydrochloride)
Phenylbutazone	4 - n - Butyl - 1 : 2 - diphenyl - pyrazolidine 3 : 5 - dione; Butazolidin
Piperocaine	3 - (2 - Methylpiperidino) propyl benzoate; (Metacaine is the hydrochloride)
Polyvidone	Polyvinylpyrrolidone
Pregnenolone	3-Hydroxy-5-pregn-en-20-one
Propyliodone	n - Propyl 3 : 5 - di - iodo - 4 - pyridone - N - acetate
Sodium cyclamate	Sodium cyclohexylsulphamate; Sucaryl
Sulphamethizole	2 - p - Aminobenzenesulphonamido - 5 - methyl - 1 : 3 : 4 - thiadiazole; Urolucosil
Suxamethonium chloride	Bis - 2 - dimethylaminoethyl succinate bismetho-chloride; Scoline
Suxethonium chloride	Bis - 2 - dimethylaminoethyl succinate bisetho-chloride
Thonzylamine	N - p - Methoxybenzyl - N'N' - dimethyl - N - 2 - pyrimidylethylene diamine; Neohteramine
Vinbarbitone	5 - Ethyl - 5 - (1 - methyl - but - 1 - enyl) barbituric acid; Delvinal

The approved names Amidone and Isoamidone are withdrawn and replaced as follows:—

APPROVED NAMES	OTHER NAMES
Methadone	6 - Dimethylamino - 4:4 - di - phenylheptan - 3 - one; Amidone; (Physeptone is the hydrochloride)
Isomethadone	6 - Dimethylamino - 5 - methyl - 4:4 - diphenyl - hexan - 3 - one; Isoamidone

**The Irresistible Urge to Buy.**—“If I see . . . stated to me from the pages of a newspaper or from a hoarding that the one thing I must use is a particular brand of tooth-paste, sooner or later it comes to me that the irresistible thing to do is to buy that tooth-paste.”—The Master of the Rolls.

# PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London on November 4 and 5, the president (Mr. W. J. Tristram) in the chair. A French Government scheme for setting up a European community to pool the resources available for the care of the sick and infirm and to contribute to the moral and physical well-being of the populations was considered, and the Council decided, in view of the potential effect such a scheme would have on British pharmacy if the British Government decided to take part, to seek full information in France and at the (British) Ministry of Health.

## Scheme for Research Scholarships

MR. D. W. HUDSON, in a preliminary report on a recent meeting of the Franco-British Pharmaceutical Commission in Paris, said that each side was endeavouring to prepare before the next meeting a scheme for research scholarships in the two countries. Decisions had been taken on relations with the International Pharmaceutical Federation, with which the Commission wished to keep in step; on exchanges of visits; and on lecture tours. The Commission had expressed its readiness to receive suggestions from the French and British students' associations. With the Commission's approval, the British section had prepared in outline a scheme for a Franco-British Congress at Harrogate in 1953. The dates proposed were May 8 to 11. Mr. F. C. Wilson and Dr. J. M. Rowson were being asked to be the English team of lecturers to visit France in 1953.

The Council considered in committee the position of candidates who failed to pass by December 1952 (when the examination was being discontinued) the Chemist and Druggist Qualifying examination based on a one-year course, and endorsed the view of the Education Committee not to extend the time limit. On the Committee's recommendation it was decided to restrict at the July 1953 examination and after the use of books by candidates in the practical examination in pharmacognosy to the British Pharmacopœia, British Pharmaceutical Codex, and the student's own practical notebook. The Committee had decided to review in 1954 the possible institution of a three-year final course, and had invited certain schools to provide refresher courses for pharmacists during the Easter and Summer vacations.

The Umney Memorial prize for 1952 was awarded to Miss Joan Faulkner, Bur-

ton-on-Trent (see p. 707). A letter from Mr. Adams, who recently completed his tenure at Leeds University of the Pharmaceutical Society research scholarship, informed the Committee that he had been awarded the Ph.D. degree of Leeds University for work on aspects of anaphylaxis and histamine liberation. Reports were received on the examinations held in October for candidates registered as apprentice or student before June 1, 1948. In England and Wales, nine first entrants sat for the Intermediate examination; three passed, three were referred, and three failed. Of forty-two candidates who re-entered, four passed, five were referred, thirty failed, three were absent. Twenty-seven out of sixty-one candidates passed in a referred subject, thirty-one were again referred, and three were absent. Of fourteen first entrants for the Chemist and Druggist Qualifying examination, two passed, four were referred, six failed and two were absent. Of forty-five re-entrants, twelve passed, twelve were referred, twenty failed, and one was absent. Twenty-seven candidates out of thirty-one passed in a referred subject, three were again referred, and one was absent. In Scotland, eleven first-entry candidates sat for the Intermediate examination; three passed, one was referred, and seven failed. There were forty-eight re-entries, of whom thirteen passed, seven were referred, twenty-six failed, and two were absent. Twenty-two out of thirty-four candidates passed in a referred subject, eleven were again referred, and one was absent. For the Chemist and Druggist Qualifying examination there was one first entrant, who was referred; of forty-four re-entrants, fourteen passed, fifteen were referred, twelve failed, and three were absent. Twenty-seven out of thirty-two candidates passed in a referred subject, and five were again referred.

## Approved for Training

Four hospitals were approved for practical training. 128 applications from pharmacies had been approved since the previous meeting. Approval was withheld from one manufacturing pharmaceutical laboratory and five pharmacies, and applications from one hospital and three manufacturing laboratories were deferred. The Council approved for publication an interim report on resolutions passed at the Branch Representatives' meeting held in May (see p. 719).

A gift of £10 to the Benevolent Fund was received from a Polish pharmacist in appreciation of the action of the Society in making it possible for him and many of his fellow countrymen to become members of the Society and so to practise in Great Britain.

The report of the warden of Birdsgrove House stated that, in the period from June to October 16, there had been 152 guests for an aggregate of 280 weeks' stay. Donations from guests amounted to £177, and gifts in kind included eight travelling rugs from the Pharmaceutical Society of New Zealand, and a cheque for £250 from the Nottingham local committee of the British Pharmaceutical Conference. The Council agreed that the Nottingham gift should be spent on furnishings for the entrance hall. Gifts of £26 each from the Conference ladies' committee and Cornish Branch were reported.

The Council approved a recommenda-

tion of the Executive of the Scottish Department that a new Branch should be formed in the Banff, Moray and Nairn districts. It was reported that an International Congress of Military Medicine and Pharmacy, previously arranged for March 1953, at Montevideo, Uruguay, would be held elsewhere in September 1953. The report of the Law Committee showed that in September the Society's inspectors and agents visited 1,050 authorised sellers, 209 listed sellers, and 680 drug store proprietors and similar traders. THE REGISTRAR reported that, since the previous meeting, 157 persons had been registered as apprentices or students, making 778 in the year. Applications for restoration to the register from four pharmacists removed more than ten years ago were approved. The registration of sixteen pharmacists under reciprocity arrangements or under the regulations for foreign pharmacists were approved.

## INTERIM REPORT ON MAY RESOLUTIONS

THE Council of the Pharmaceutical Society has issued its interim report on the resolutions passed at the Branch Representatives' meeting held in May (*C. & D.*, May 31, p. 740). The following is a summary of the report:—

The Society's views on the matter of pharmacists in H.M. Forces have been made known often to the appropriate authorities, and the Council will continue to press the claims of the pharmacist for adequate recognition.

The Council has reviewed the financial position of the Branches and considers that no change in allocation of grants is needed at present. The position will be reviewed in 1953.

The matter of holding an annual religious service as the opening function of the British Pharmaceutical Conference is under consideration by the Conference Executive.

As soon as possible in the New Year there will be published in the "Pharmaceutical Journal" a series of monthly articles in the nature of a refresher course covering various aspects of pharmacy.

The cost of the index of new products is increasing. The Council is satisfied that the subscription rate is reasonable and that a reduction would not be justified.

The Council reiterate the objections which they have already made to the proposal that advertisements in the Society's

official journal for pharmacists offering salaries of less than £700 a year, unless it is made clear that a young and/or recently qualified pharmacist is required, should be refused. They intend, however, to approach the organisations of pharmacists which participate in negotiations on pharmacists' remuneration for discussions on the subject.

The name of the town given in the address of an examination candidate as an "Apprentice or Student" is now being stated.

Future policy regarding the Diploma in Biochemical Analysis is under consideration. The institution of a graduation ceremony for pharmaceutical chemists is also being considered.

## PRIVATE MEMBER'S PHARMACY BILL

AMONG Private Members' Bills presented to the House of Commons on November 19 was a Pharmacy Bill, 1952, sponsored by Mr. John Hall, High Wycombe. The supporters include Mr. H. N. Linstead and Sir Wavell Wakefield. The Bill, which is now being discussed between Mr. Hall and the Ministry of Health, has been prepared with the intention of effecting changes in the Pharmacy Acts in their relation to domestic matters concerning the Pharmaceutical Society and its members.

## PHARMACEUTICAL SOCIETY OF IRELAND

THE Council of the Pharmaceutical Society of Ireland met in Dublin on November 11, Mr. J. P. Kissane (president) in the chair. There were present: Messrs. M. Costello (vice-president), H. P. Corrigan (treasurer), D. J. Kennelly, M. Power, T. B. O'Sullivan, C. D. O'Shea, F. J. Robinson, P. Brooke-Kelly, A. A. Toher, J. A. O'Rourke, P. F. McGrath, J. Gleeson, C. J. Cremen and T. C. Scott. A letter was read from Miss K. O'Connell (private secretary to Mr. Eamonn de Valera) expressing the thanks of the Taoiseach for the Council's good wishes on his birthday.

Invitations to the president and registrar were received from the Pharmaceutical Society of Great Britain to its celebrations in London on December 4 to mark the passing of the first Pharmacy Act, and it was agreed that the Society should be represented. A communication from the British Pharmaceutical Conference in connection with forthcoming meetings was read and noted.

### Preliminary Registrations

Preliminary registrations were notified in respect of John McIvor and Philip Tierney. Applications from Mrs. E. Bradley (née Prendergast), L.P.S.I., and Mrs. F. Walsh (née O'Regan), L.P.S.I., requesting change of name in the register on marriage were granted. The following changes of address were notified:—

Mrs. A. Farrell, M.P.S.I., to Athea, co. Limerick; Mrs. F. Walsh, L.P.S.I., to 19 George's Quay, Cork; Messrs. M. Corrigan, L.P.S.I., to Middle Square, Macroom, co. Cork; E. W. Massey, M.P.S.I., to 1 Friarsland Avenue, Roebuck Park, Dundrum, co. Dublin; and M. F. Moore, M.P.S.I., to 60 Donore Avenue, South Circular Road, Dublin.

Mrs. Eva Philbin, M.Sc., was re-appointed examiner in chemistry to the Licence examination, and Mr. D. Roice, M.P.S.I., examiner in pharmacy to the Assistants' examination for a further period of twelve months each. The Licence certificates of Kathleen Nolan, Frances E. Manus, Angelus Clarke, and Monica Lee were signed and sealed. The following were elected Members of the Society: Misses B. Cremen, I. Hogan and M. G. O'Toole, Messrs. G. F. Alley, T. E. Hardy, B. Miney, T. A. O'Donnell, and M. White. Messrs. F. G. Duffy, M. Whelehan and P. Gilchrist were elected Associate Druggists. The following were nominated for membership: Michael Corrigan, Middle Square, Macroom, co. Cork; Miss Ange-

lus Clarke, 59 Nephin Road, Dublin; Mrs. Evelyn Bradley, Bridge Street, Ardee, co. Louth; Mrs. Agnes Farrell, Athea, co. Limerick; John P. Duffy, Main Street, Buncrana, co. Donegal; Miss Anne Moore, Garr House, Rhode, Offaly; and Edward Walsh, Church Street, Freshford, co. Kilkenny.

A letter was read from Mr. W. J. Webb (manager of the Dublin office of Burroughs Wellcome & Co.) stating that his company would be pleased to donate £200 for equipping the aseptic dispensing room in the Society's college. On the motion of THE PRESIDENT, seconded by THE VICE-PRESIDENT, it was unanimously decided to express the Council's thanks to Messrs. Burroughs Wellcome for their generosity, and for the interest taken by Mr. Webb.

The reports of the House and Schools Committees were submitted and approved. The Schools Committee report mentioned that a letter had been received from the principal of the Crawford Technical Schools, Cork, regarding recognition of the Cork School, and it was agreed that the letter should be replied to in the terms of the president's recent statement at Cork (see p. 704). The committee's recommendation to hold the next pre-registration examination in September 1953 was agreed. It was further agreed to hold the conferring ceremony at Shrewsbury Road on December 2 and to draw up a new scheme for awarding medals and distinctions.

### Publicity Inimical to Profession

Rising out of the Law Committee's report (which was adopted) a discussion took place on two recent articles inimical to the pharmaceutical profession published in provincial newspapers. Members agreed that such "unfair and unwarranted attacks" on chemists should not be allowed to go unchallenged, and it was decided to take Counsel's opinion in relation to one article. The Council then heard a report on the deputation recently received from the Council by the Minister for Health (Dr. J. Ryan) in connection with the proposed Health Scheme. [Details of the report will be published later.]

Reporting on the October Licence examinations (held for the first time under the new Regulations) and on other examinations THE REGISTRAR stated that 106 candidates sat for Part I of the Licence examination, fifty-two being successful.

The examiners had remarked on the improved standard, ascribing it to the fact that candidates were able to concentrate better on the limited number of subjects. The standard demanded approximated to that of recent examinations, but it was expected that the standard might be raised gradually when students had become accustomed to the new conditions. To avoid hardship to students who had taken lectures prior to the introduction of zoology, questions on that subject were optional. Of the successful candidates, nine came forward for Part II. Three of those were successful and three others were allowed credit for forensic pharmacy. There were also eight candidates who had been referred in pharmacy at former examinations, and one Army part II candidate. The latter and two of the referred candidates were successful. None of the candidates who entered for Part II did so for the first time. Fourteen candidates entered for the Dispensing Chemist and Druggist examination, five being successful. One of those was a first entrant. The examiners

commented on the improved standard, and that could be ascribed only to the special courses conducted by the Society for the benefit of Registered Druggists during September and the beginning of October.

THE REGISTRAR reported on the deaths of Thomas Ignatius Keogh, M.P.S.I., and William Gerald Walsh, M.P.S.I.

At question time MR. O'SHEA mentioned the need to remind members and licentiates of the Society of the importance of keeping a D.D.A. register, and it was decided, on the suggestion of MR. POWER, to have a notice on the matter included in the Society's Calendar.

At a meeting of the Benevolent Fund Committee, held at the close of the Council meeting, a letter was read from Mr. P. J. Hogan (secretary, Limerick Chemists' social committee) enclosing a cheque for £21 as a contribution to the Fund and inviting the officers of the Society to a dance organised by the committee in Limerick on December 10. The Benevolent Fund Committee's thanks were tendered to the Limerick committee.

## IRISH STUDENTS' ANNUAL MEETING

AT the fourth annual meeting of the Irish Pharmaceutical Students' Association in Dublin recently, the attendance included Messrs. M. Costello (vice-president, Pharmaceutical Society of Ireland) and S. J. Relph, London (International Pharmaceutical Students' Federation).

MR. M. J. CAHILL (outgoing president) said that where students were convinced that the Society had failed in its obligations as a teaching authority, they must give voice to their complaints in a logical and dignified manner. The I.P.S.A. had been established primarily to act as the students' spokesman in that regard. It had, he thought, carried out the task efficiently. "We make no apology for our insistence upon higher standards." In those countries where pharmacy was practised in its purest form pharmacists commanded greater respect, and enjoyed higher remuneration than in countries where practice tended to be more commercialised. Students' status had improved immeasurably from the lowly position of their predecessors. If progress was to continue they must support their organisation much more than formerly.

Mr. Cahill said that early in October representatives of the Association had had a satisfactory conference with the president and other officers of the Pharmaceu-

tical Society of Ireland at which many of their suggestions had been accepted. The Society's Council had anticipated them in having already decided to provide extra courses in zoology and aseptic dispensing for older students. The fee for re-entry of referred candidates to the Licence examination had been reduced from £8 8s. to £6 6s. The student exchange scheme had been applied to the Irish Republic and the various bodies concerned had approved the plan, but no further progress could be made until individuals offered to participate. Three students from Ireland had attended a camp study-tour held by the Federation in London in August.

Mr. Cahill's address was adopted. MR. COSTELLO said that he felt sure that the average future student would qualify within the allotted five-year course. The financial report presented by MR. P. S. O'BRIAIN, was adopted unanimously.

MR. S. J. RELPH read a paper on "The Evolution of Pharmacy and Medicine."

The following officers were declared elected for the year: President, Mr. T. Farmer; Secretary, Miss Rose Murphy; Treasurer, Mr. M. Shannon; Assistant Secretary, Miss Mary McCarthy; Liaison Secretary, Mr. T. Buckley; Editor of the Magazine, Miss Helen Eastwicke; Social Committee Delegate, Mr. S. Quinn.

## GLASGOW DISCUSSES ETHICS AND ASSISTANTS

A MEETING of the Association of Glasgow Pharmacists held in Glasgow on October 30 was addressed by Mr. H. T. Thomas (chairman of the Scottish Executive) on "Current Pharmaceutical Affairs." It was his opinion, said Mr. Thomas, that the Council of the Pharmaceutical Society would have to act quickly if they were going to bring unqualified assistants under their control. Many were unhappy about the wording or the method of application of the code of ethics, but most pharmacists agreed with it in principle. Mr. Thomas believed that a two-year apprenticeship was not too long. Dearth of apprentices in pharmacy was due to the possible fear of lack of employment or insufficient salary. The Executive felt that the presentation of the case for pharmacy as a career had not been sufficiently attractive. He suggested that the possibility of a limitation of pharmacies should be examined. Appealing for more generosity to the Benevolent Fund Mr. Thomas announced that Scotland was receiving very much more from the fund than she was giving to it.

### Why a Register?

MR. H. KERRIGAN agreed that the subject of unqualified assistants was of prime importance, although he could not understand the need for a register. He could not see that it would serve any useful purpose. The registration of unqualified persons would not result in any increase of production, not even one extra prescription. He pointed out that pharmacy and pharmacists had the best record of any of the services since the inception of the National Health Service. He warned that those behind the movement were looking for a back door into pharmacy. They should be fought outside the Society. That would be easier than fighting them after they were in.

MR. COLIN CAMPBELL did not wish to commit himself for or against, but said that pharmacists in Scotland were inclined to discount the influence of organisations such as the Society of Apothecaries of London. He said that a register such as that envisaged would help in assessing the salaried value of assistants and dispensers when they applied for posts. In some large English hospitals already, chief pharmacists were issuing a certificate of competence to unqualified helps. Later in the meeting, Mr. Campbell asked Mr. Thomas

to put it on record that he considered that the annual meeting of the Society in London was unfair to Scottish chemist. He suggested that the meeting should be held in several large cities so that members could have an opportunity to vote on vital and important subjects.

MR. D. R. BRODIE, referring to a body of unqualifieds who at the moment seemed to be strong enough to demand recognition, suggested that recognition would only make them stronger.

MR. STEWART pointed out that the Society was aiming at improving the status of pharmacists. He said that only in hospitals was there any shortage of qualified personnel, and there only because salaries were far below those in other branches of pharmacy. It seemed to him that registration of unqualifieds was going to be golden opportunity for the Government to obtain cheap labour for hospitals and health centres, to the exclusion of properly qualified and paid pharmacists.

MR. J. H. ANGUS stated that there were enough pharmacists to dispense all prescriptions. He was told in answer to question that recognition of unqualified would not mean that they would be entitled to sell poisons.

MR. R. DONALD, asking if dispensing would become the prerogative of pharmacists and registered dispensers only, was told that pharmacists would be free to employ registered or unregistered unqualifieds.

MR. MUNRO asked if, instead of opening the gates of pharmacy to permit other people to dispense medicines, it would not be better to try to influence the Government to restrict the sale of medicinal preparations by other stores.

### Is it Worth While to Qualify?

MR. J. D. MAIR thought that among other things the pharmacist's qualification was meant to help protect him, but a number of unqualified persons who had some knowledge of dispensing had come along and demanded recognition and would then share that protection without qualification. Just how much was it worth to qualify?

MR. A. OFFICER said that recognition of dispensers would help in determining their worth to an employer. On the subject of benevolence, he said that, as secretary, he had tried to obtain details of how much was coming to the Branch in grants as compared with what was being contri-

ited by it. He had been informed that such figures could not be supplied. He would be very pleased if Mr. Thomas could obtain and publish figures for Scotland as a whole. Perhaps then members would contribute more freely.

### Scotland's Honour at Stake

Other speakers said that if it were known how much more was coming to Scotland than was being contributed by Scotsmen, Scottish members would rouse themselves from their apathy and attempt to redeem their honour. The meeting was unanimous that the total figures for all Scotland should be published and circulated to each Scottish member.

MRS. A. S. MALCOLM asked if restrictions under section 4 of the code of ethics would affect perfumery, cosmetics and toilet goods. MR. THOMAS said that that could not be the case. That section of the code accepted those goods as being part of a pharmacists' stock-in-trade.

Rather was it aimed at seeds, spades, ironmongery, stationery, and such fancy goods as were unrelated to pharmacy.

Many other members spoke on similar lines. The most notable point raised was a request for a card vote or referendum by post on the recognition of dispensing assistants and the code of ethics.

MR. MAIR raised the question of the unnecessary duplication of proprietary ethical medical substances which of necessity rested on every pharmacist's shelves. MR. THOMAS said the matter was under review.

A member raised the question of obtaining a J.P.'s signature to obtain a licence to keep and retail methylated spirit. He was told in reply that that was required by the Customs and Excise under Scots law. MR. THOMAS said that representations had been made to the Commissioners about the matter before without success, but said that he would keep the matter in mind and bring it to the notice of the Executive.

## PHARMACY'S NEEDS IN EDUCATION

PHARMACISTS were urged to take every advantage of refresher courses so that pharmacy and medicine could march together in the fight against disease when MR. H. H. CAMPBELL, B.Sc., Ph.C., F.R.I.C., H.W.C. (head of the pharmacy department, Heriot-Watt College), addressing the Edinburgh and South-east Scottish branch of the Pharmaceutical Society on October 24, asked "Whither Pharmacy?" At present that was difficult because of shortage of staff.

### Three Years Adequate

The three-year period of academic study, exclusive of apprenticeship, he considered satisfactory, but any extension would create economic difficulties, and react adversely on the number entering the profession. The time had come for some specialisation in pharmaceutical practice and in the first instance it could start in the teaching hospitals. Facilities should be available to all students to study subjects allied to pharmacy. The sale by pharmacists of material not strictly medicinal, sometimes considered an unfavourable aspect of pharmacy, resulted in the maintenance of a greater number of pharmacies and a more convenient service to the public. Those advantages could never be replaced by a system in which health centres carried out dispensing for outpatients.

In subsequent discussion, MR. R. J. QUIN, who asked how students today compared with those of former years, was told that they were very good indeed.

### What Dispensing Implies

MR. J. SOMERVILLE said that the dispensing of medicines consisted of supplying the public with their requirements and in protecting the public.

MR. TAIT, who asked if the Diploma in Biochemical Analysis had any place in the pharmacist's scheme, was told that no one should be deterred from taking any further courses of study; though he might never use the diploma he had benefited the community by the increased knowledge he had acquired.

MR. C. G. DRUMMOND pointed out that the educational policy had led to the production of a large number of highly trained persons. Pharmacists suffered from having few outside interests.

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**Where Headaches are Cheapest.** — According to "Picot News," chemists in France are proving that their prices are not too high by informing customers that twenty minutes' work earns them enough to buy twenty aspirin tablets in France, seven in Belgium and England. To complete the comparison, of course, they would need to state how much work brings on a headache in each of the three countries.

## TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade**

**L O N D O N , N O V E M B E R 1 9**

A SMALL reduction (of the order of £2 per ton) has been made in all grades of PARAFFIN LIQUID. No other important price changes have occurred in either PHARMACEUTICAL or FINE CHEMICALS. The slightly improved undertone that has been evident in the market for a few weeks continued to show during the week, though most manufacturers agree that there is still much room for improvement.

Orders for CRUDE DRUGS were mainly for small lots. A number of commodities showed a price fall over the previous week. They included ERGOT, GUM ACACIA, TRAGACANTH, MASTIC and Indian HENNA. Fatty grey CARNAUBA WAX was lower by 20s. per cwt., otherwise all waxes were unchanged. A fairly wide selection of SENNA LEAVES is now on the spot. A shipment of Tinnevelly hand-picked pods is due shortly, meanwhile f.a.q. are offering at about 1s. 4½d. per lb., ex warehouse. Alexandria manufacturing pods are also available on the spot, but the forward position is expected to become tighter.

SENNA shipments from Tuticorin during October were as follows :—

	U.K.	U.S.	EUROPE
LEAVES ...	Bales 118	Bales 510	Bales 252
PODS ...	Bales 89	Bales 35	Bales 144

Owing to the lack of buying interest in ESSENTIAL OILS, the prices showed little variation over those of previous weeks. Ceylon CITRONELLA was slightly lower for shipment and on the spot.

Returns of the National Sulphuric Acid Association, Ltd., show that the production of SULPHURIC ACID in the United Kingdom during the third quarter of the year was 316,515 tons, or 62.6 per cent. of capacity. The figure compares with 346,521 tons in the previous quarter and with 402,666 tons in the third quarter of 1951, the decline reflecting the lower activity in many industries. Drugs and fine chemicals, however, used 4,178 tons during the quarter, against 3,249 tons in the corresponding quarter of 1951.

### **U.S. Drug and Chemical Report**

**N E W Y O R K , N O V E M B E R 1 8**

PRICE changes on the American chemical market during the past week included a five-cents-per-lb. advance in GLYCERIN. MERCURY prices were marked up to \$200-205 per flask against \$193-195 which have prevailed for some time. The price strength

primarily reflects reports of extensive U.S. Government purchases abroad—traders say the Government had recently taken delivery abroad of 10,000 flasks and was currently negotiating for at least a further 20,000 flasks. Lower per lb. are domestic TARTARIC ACID at 37 cents per lb. in carlots (down 2½ cents) and synthetic AMYL ACETATE at 15 cents (down 2½ cents). Fermentation ETHYL ALCOHOL was slashed to 40 cents per gall. (down 15 cents), marking the first change since May. Higher per lb. is CASCARA SAGRADA at 35 cent (up 3 cents) but No. 2 Karaya at 22 cent is down 3 cents per lb. In ESSENTIAL OIL natural BERGAMOT is offered at \$14.50 per lb. (up \$1). Lower per lb. are distilled LIME at \$6.50 (25 cents), and Ceylon CITRONELLA at 55 cents (2 cents).

### **Pharmaceutical Chemicals**

AMYLOBARBITONE.—B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C. 70s. per lb.

ANTIMONY SALTS.—Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb for 1-10-cwt. and SODIUM TARTRATE, B.P. 13s. 3d.

BARBITONE.—Rates per lb. are: 1-cwt lots, 34s.; 28-lb., 35s. The SODIUM derivative is 1s. per lb. more than the base.

BUTOBARBITONE.—B.P.C. is 75s. per lb in 1-cwt. lots.

DEXTROSE, B.P.—Rates are as follows :—

MONOHYDRATE	1-4 cwt.	5-cwt.
½-lb. carton ...	12s. 9d. doz.	—
1-lb. carton ...	23s. 6d. doz.	—
7-lb. tin ...	13s. 3d. each	12s. 3d.
14-lb. tin ...	25s. 0d. each	23s. 6d.
28-lb. tin ...	47s. 0d. each	45s. 0d.
In bulk ...	Above, less 12½ per cent. to wholesalers delivered.	
In bulk ...	£127 per ton, e works or store, for minimum 1-ton lots.	

ANHYDROUS	1-4 cwt.	5-cwt.
7-lb. tin ...	13s. 9d. each	12s. 9d.
14-lb. tin ...	26s. 0d. each	24s. 6d.
28-lb. tin ...	49s. 0d. each	47s. 0d.
In bulk ...	Above, less 12½ per cent. to wholesalers delivered.	
In bulk ...	£132 per ton, e works, for minimum 1-ton lots.	

HEXOBARBITONE.—B.P. in 1-cwt. lots is 70s. per lb.

**MAGNESIUM CARBONATE, B.P.** — Bulk rates are :—**LIGHT**, 13s. per cwt.; **HEAVY**, 16s. per cwt.

**MAGNESIUM SULPHATE**.—Quotations for P. in minimum 1-ton lots vary between £7 10s. and £20 per ton, according to size of crystal and manufacture. Exsiccated is £34 per ton.

**METHYLPHENOBARBITONE**.—B.P. is 63s. r lb. (1-cwt. lots).

**METOL**. — In 1-cwt. lots the price is 1s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 1s.; 7-lb., 28s.

**OLEIC ACID**.—Prices for B.P. are from 1. 7d. to 2s. per lb. and technical from 1. 5d. to 1s. 10d. per lb.

**PARAFFIN**. — **LIQUID**: Reduced. Prices wholesale distributors for **HEAVY**, P., is now £102 7s. 6d. per ton. **LIGHT**, P., is £83 7s. 6d. per ton and Technical **WHITE OIL**, £70 15s.—all in 40/45 ll. returnable loaned drums, delivered the U.K. **SOFT PARAFFIN**: **WHITE** is 8 7s. or £86 2s. 6d. per ton as to grade and **YELLOW**, £66 2s. 6d., all in non-returnable 3-cwt. drums. **HARD PARAFFIN**, p. 135/140° F., is £72 15s.; 145/150° F., £80; and 160/165° F., £100 per ton, minimum-ton lots, ex works.

**PHENOBARBITONE**.—1-cwt. lots are 34s. r lb.; 28-lb., 35s. per lb. **SODIUM** is 1s. r lb. more than above rates.

**POTASSIUM PERMANGANATE**.—Rates for material packed in 1-cwt. drums are as follows :—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
1 cwt.	1s. 9½d.	19 1s.
3 cwt.	1s. 9d.	18 7s.
5 cwt.	1s. 8½d.	18 2s.
1 ton	1s. 8d.	17 7s. 6d.
5 tons up.	1s. 7½d.	17 3s.

**RESORCINOL**.—Price per lb. for 28-lb.-lb. lots is 15s. 6d.; 1-10-cwt., 15s.

**ROCHELLE SALT**.—Rates (per cwt.) for powder or granulated material are as follows : In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. **SEIDLITZ POWDER**, ordinary strength is 158s. 3d. per cwt. 1-cwt. lots; smalls, from 1s. 11d. per lb. Extra-strong is 170s. 9d. per cwt., and 2s. for small quantities. Double-strength is 2s. per cwt.

**SALOL, B.P.C.**.—Current quotations for quantities of 1 cwt. are 9s. to 10s. 6d. per lb., according to pack : 28-lb., 10s. 6d.; 7-lb., 13s. 0½d.; 7-lb., 16s. 1d.

**SANTONIN**.—The following prices apply to the home market, including Eire :— 1-kilo lots, £89 10s. per kilo; 2-4-kilo s, £91; 1-kilo, £92 10s.; 500 gm., £94; 100 gm., £95 10s.; 100 gm., £97; smaller quantities, £98 10s.

**SILVER SALTS**.—**NITRATE** in 1,000-oz. s is 3s. 11½d. per oz.; **PROTEIN** un-angled at from 36s. 3d. to 42s. 9d. and

for **VITELLIN** from 68s. 6d. to 76s. 6d. per lb., as to quantity.

**SODIUM CHLORIDE**.—Re-crystallised is 20s. per cwt.

**SODIUM SALICYLATE**.—Rates are : 1-ton lots in bulk, 3s. 5d. per lb.; 5 - cwt., 3s. 5½d.; 1-cwt., 3s. 6d. Scheduled rates in the home market for 28-lb. and under 1-cwt. are from 4s. 1d. to 4s. 6d. per lb. as to pack.

**SODIUM SULPHATE**.—Maker's prices are from £10 10s. to £15 10s. per ton as to quantity for B.P. crystals.

**SODIUM THIOSULPHATE**.—Maker's price for 1-ton lots in paper - lined bags is £33 2s. 6d. per ton; 1-cwt. is £2 1s. 8d.

**STILBESTROL**.—Quotations are from 1s. 2d. per gm. to 1s. 7d., as to quantity.

**SULPHACETAMIDE**.—Quotations (per lb.) are from 24s. 6d. for 1-cwt. lots to 27s. for 1-lb. The **SODIUM** derivative is from 30s. to 32s. 6d.

**SULPHUR**.—B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt. lots.

**TERPINEOL**.—Prices of B.P. grade are from 4s. per lb. upwards as to quantity.

**TERPIN HYDRATE**.—Prices are from 7s. 6d. to 8s. per lb., as to quantity.

**THEOPHYLLINE**.—ALKALOID is 27s. 6d. per lb. and **AMINOPHYLLINE (THEOPHYLLINE WITH ETHYLENEDIAMINE)**, 31s. per lb. both for 1-cwt. lots.

**TRIETHANOLAMINE**.—Commercial grade is about 2s. 8d. per lb. for drum lots, ex warehouse.

**ZINC CARBONATE**.—B.P. Rates per lb. are as follows :—1-cwt. lots, 2s. 5d.; 28-lb., 2s. 9d.; 7-lb., 3s. 1d.

## Crude Drugs

**ACONITE**.—Spanish *napellus* is 3s. 6d. per lb., duty paid, ex wharf.

**ALOES**.—Prime Cape is slightly easier forward at about 157s. 6d. per cwt., c.i.f.; spot is unchanged at 175s. Curaçao is 330s. per cwt., c.i.f., and 350s. spot.

**ANISE**.—Chinese Star is 4s. 9d. per lb., duty paid.

**BALSAMS**.—*Canada*: Spot is 24s. 6d. per lb. for clear bright, paper - filtered. *Copaiba*: Para is offered on the spot at 12s. 6d. per lb., duty paid. Peru is 12s. 3d. per lb., duty paid. *Tolu* (genuine as imported) on the spot is 23s. 6d. per lb., in original cases and for shipment, 19s., c.i.f.

**BELLADONNA**.—**ROOT**.—A parcel testing 0.44 per cent. is offered at 2s. 9d. per lb. on the spot, duty paid; **LEAVES** are from 3s. per lb., as to test.

**CLOVES**.—Firm. Offers of Zanzibar on the spot are now 11s. 11d. per lb., and 10s. 10½d., c.i.f., for November-December shipment.

**COCILLANA.** — Bark is 1s. 9d. per lb., spot.

**ERGOT.** — Offers of Portuguese are about 14s. per lb., c.i.f., November shipment. Spot supplies are 16s. per lb.

**GUM ACACIA.** — Lower Kordofan cleaned sorts on the spot are 96s. per cwt.; shipment, 92s. 6d., c.i.f.

**HENNA.** — Indian green leaves are about 72s. 6d. per cwt, on the spot, and 75s. c.i.f., forward. Egyptian is 100s., spot.

**IPECACUANHA.** — Forward offers are firmer. Nicaraguan, November-December shipment, are from 40s. per lb., c.i.f., and Colombian, 39s. 6d., c.i.f. Spot quotations are: Nicaraguan, 41s. 6d., Colombian, 39s.

**MASTIC.** — Quotations for tears (No. 2) are from 11s. 9d. per lb., spot.

**MENTHOL.** — Brazilian is 44s. 6d. per lb., Chinese, 60s., both duty paid on the spot. Shipment: Brazilian, 44s. 6d.; Chinese, 64s., both c.i.f.

**PEPPER.** — Quiet. White Sarawak on the spot is now 11s. per lb., ex wharf, and 10s. 3d., c.i.f., November shipment. Black Malabar, 1,250s. per cwt., spot, and 1,090s., c.i.f.

**QUASSIA.** — Chips on the spot are available at 34s. 6d. per cwt.; forward offers are 30s. 6d., c.i.f.

**QUILLAIA.** — Forward rates for whole bark are £95 per ton, c.i.f. Spot, £125.

**RHUBARB.** — Quiet. Shensi is 11s. 6d. per lb.; Double Deer No. 1, 7s. 6d.: other grades of Chinese rough round at from 3s. 9d. to 6s., all duty paid.

**SANDARAC.** — Morocco is offering on the spot at 14s. per lb.

**SARSAPARILLA.** — Jamaican native red is from 2s. 1½d. to 2s. 4d. per lb., as to holder. Shipment is 2s. 3d., c.i.f.

**SEEDS.** — **ANISE.** — Turkish, 147s. 6d. per cwt., duty paid, and 135s., in bond, Cyprus, afloat, 150s. landed. **CARAWAY.** — Dutch offering at 92s. 6d. per cwt., duty paid. No business reported recently.

**CELERY.** — Quiet. Indian is 1s. 10½d. per lb., spot London. French nominal 2s. 3d. per lb., duty paid. **CORIANDER.** — Market quiet with little business reported. Spot, Morocco, old-crop is 39s. per cwt., duty paid, and 35s., in bond; new-crop, 40s., duty paid. Shipment, Morocco reported sold to London at 32s. 6d., c.i.f., in double bags. **CUMIN.** — Market dull. Spot prices are: — Cyprus, 160s. per cwt.; Indian, 185s.; and Morocco, 170s., duty paid. Shipment: Cyprus quoted at 130s.; Indian, 160s.; Morocco, 155s., all c.i.f., basis London. **DILL.** — Indian on spot is 80s. per cwt., and for shipment, 67s. 6d., c.i.f.

**FENNEL.** — Spot: Indian, 205s. per cwt.; French, 190s., duty paid; and mid-European, 187s. 6d., duty paid. **FENUGREEK.** — Market remains dull.

Morocco on spot, London or Liverpool 39s. per cwt., duty paid. **MUSTARD.** — Eng list new-crop is now offering at 72s. 6d. to 90s. per cwt., according to quality.

**SENNA.** — *Tinnevelly LEAVES*: Prime No. 1 on the spot are 1s. 4d. per lb.; Prime No. 2, 1s. 2d.; Prime No. 3, 11d. f.a.q., 10½d. PODS, f.a.q., 1s. 4½d.; hand-picked (December delivery), 2s. 6d. to 3s., landed. *Alexandria PODS*, manufacturing, 1s. 10d.; hand-picked, 3s. 6d. to 6s.

**HELLAC.** — Spot quotations are: — F.O.T.N., pure, 175s.; F.O. standard No. 1, 190s.; fine orange, 220s. to 265s. per cwt., ex-London warehouse.

**TRAGACANTH.** — No. 1 ribbon on the spot is £130 per cwt.; No. 2, £110; No. 3, £80.

**TURMERIC.** — Madras finger on the spot is 60s. per cwt., and forward, 52s. 6d., and new-crop at 54s. 6d., c.i.f.

**VALERIAN.** — Indian is offered at 135s to 137s. 6d. per cwt., spot. Belgian at about 200s.

**VANILLIN.** — Present rates (per lb.) are as follows: — 5-cwt. lots, 35s.; 1-cwt. 35s. 3d.; 56-lb., 35s. 6d.; smaller quantities, 35s. 9d.

**WAXES.** — **BEES'.** — Dar-es-Salaam on the spot is 425s. per cwt.; January-February, 1953, shipment, 370s., c.i.f. Sudanese for shipment, 370s., c.i.f. **CANDELILLA.** — Spot is 645s. per cwt. **CARNAUBA.** — Prime yellow, spot, 1,240s. per cwt.; November-December shipment, 1,140s.; Fatty grey, spot, 860s. per cwt., afloat, 845s., c.i.f.

**MONTAN.** — Reibeck crude on the spot is 135s. per cwt. **OURICURI.** — Spot, 0.5 per cent. impurities, 690s. per cwt. **SPERMACETI.** — Case lots are 2s. per lb.

## Essential and Expressed Oils

**CITRONELLA.** — Spot prices for original drums are: — Ceylon, 3s. 6d. per lb.; Formosa, 3s. 8d. in bond; Java, 4s. in bond. Forward: Ceylon, 3s. 3d.; Formosa, 3s. 5½d., and Java, 3s. 11d., all c.i.f., November shipment.

**EUCALYPTUS.** — Drum lots of 70 to 75 per cent. eucalyptol on the spot are 5s. 3d. per lb., and 80 to 85 per cent., 5s. 6d.

**HYDNOCARPUS.** — Spot is offered at 2s. 2d. per lb.

**LAVENDER.** — French, 40-42 per cent. linol on the spot is from 41s. to 42s. per lb.

**LEMONGRASS.** — Forward quotations are 6s. per lb., c.i.f., spot, 6s. 3d.

**PALMAROSA.** — Spot quotations for Formosan are 35s. per lb. East Indian is 48s. 6d., c.i.f., and 55s., spot.

**PEPPERMINT.** — *Arvensis*, Chinese oil is firm on the spot at from 36s. 9d. per lb. Brazilian, 16s. Forward: Chinese, 33s.; Brazilian, 15s. 3d., c.i.f., November-

December shipment. Italian " Mitcham " type oil, 52s. to 54s. per lb., as to quality, for original drums, delivered. Forward, 51s., c.i.f.

**PETITGRAIN.**—Paraguay on the spot is from 21s. per lb.

**PIMENTO BERRY.**—English-distilled oil, 7s. 6d. per lb. Imported oil is from 5s. per lb., spot.

**ROSEMARY.**—Spanish oil on the spot is from 5s. 6d. per lb., duty paid.

**SAGE.**—Spanish is offered at from 5s. 6d. to 9s. 6d. per lb., spot.

**SANDALWOOD.**—Mysore oil on spot is from 69s. per lb., as to quantity; Australian oil is offered at 47s. 6d. per lb.; West Indian, 19s. 3d.

**SASSAFRAS.**—Brazilian natural is offering at 5s. 9d. per lb., duty paid, and 5s. 9d., c.i.f.

## WORLD TRADE

**India Bans Buchu Imports.**—The Government of India has decided not to allow buchu to be imported against licences issued for drugs and medicines.

**Swiss Antibiotics Imports.**—The Swiss authorities have announced that antibiotics are subject to import licensing requirements. Import licences will be granted on condition that importers agree with the authorities to maintain stocks at levels to be determined by the Ministry of Commerce.

**Concession to Australian Importers.**—Australian importers are to be allowed to take full advantage of their current quotas irrespective of the amount of goods they are importing under orders placed before the March cuts were imposed. The concession applies to goods of non-dollar and non-Japanese origin.

**Brazilian Pharmaceutical Imports.**—Brazil has released \$6 millions for the import of raw materials for the domestic pharmaceutical industry. A detailed examination of all applications already lodged for permission to import raw materials and machine parts for the chemicals industry has been ordered by the Government.

**Greek Import Levy on Drugs.**—Importers in Greece claim that pharmaceuticals are burdened by more levies than any other imported commodity (the recently imposed levy on pharmaceutical imports is 50 per cent.) and have decided to stop all import operations. The Government is to meet a committee, on which

the importers are represented, to discuss the matter.

**Potash Production in E. Germany.**—The Soviet Zone of Germany is at present exporting greater quantities of potash than the whole of pre-war Germany, and further increases in potash production by 1955 are planned under the present five-year plan. Production capacity in East Germany now stands at approximately 1.5 million tons of K<sub>2</sub>O annually.

## OVERSEAS ECONOMIC REPORTS

COUNTRIES dealt with in Overseas Economic Surveys issued recently by the Board of Trade and published by H.M. Stationery Office include Egypt, Paraguay and British West Indies. Abstracts concerning the pharmaceutical and allied industries are given below:—

**British West Indies.**—Imports of chemical and pharmaceutical products are not dealt with but it is stated that there is a demand for a fairly comprehensive range of consumer goods. Since strenuous efforts are made to develop the tourist trade particularly in Bermuda and a record number of visitors arrived in 1951 the Island's importance as a dollar-earner should not be overlooked.

**Egypt.**—Production of certain pharmaceutical specialities, mainly from imported fine chemicals received an impetus during the 1939-45 war. The large influx of preparations since that time has led to a reduction in local manufacture. The industry is being encouraged to produce fine chemicals from indigenous medicinal plants. Local soap factories have recently had to face severe competition from imported soaps of which Britain supplies a large part of the market.

**Paraguay.**—Chemicals, drugs, dyes and colours bought from the United Kingdom during 1951 were valued at £110,158 (against £22,830 in 1950). Pharmaceuticals are not dealt with separately as the volume of business done is small by virtue of the country's population (1.4 millions). Perfumery, tooth-paste and " simple pharmaceutical products " have traditionally been purchased in the border towns of the Argentine for re-sale on the local market. An important part of the country's foreign exchange earnings is derived from sales of petitgrain oil. During 1950, a total of 157 metric tons was exported.

# MICROBIOLOGICAL TECHNIQUES—V

By Edward Gurr, F.L.S., F.R.I.C., F.R.M.S.

THE procedures outlined below can be readily followed at a glance in the laboratory.

## Animal Histology

### DEMONSTRATION OF ELASTIC AND CONNECTIVE TISSUE FIBRES:

#### *Staining solutions:*

- (a) Orcein 0.5-1 per cent. in 8 per cent. alcohol, 50 mils.  
Hydrochloric acid, 0.5 mil.
- (b) Cotton red, 0.5 gm.  
Aniline water 24 mils.  
Absolute alcohol, 26 mils.

#### *Technique:*

1. Fix sections to slides, dewax with xylol.
2. Wash with two changes of absolute alcohol.
3. Wash with 90 per cent. alcohol.

Note: If the material has been fixed in a fluid containing mercuric chloride, treat for the removal of mercurial precipitate by the standard method before proceeding to the next step.

4. Rinse with 70 per cent. alcohol.
5. Immerse for twenty minutes to an hour in (a) in a closed staining jar.

6. Rinse in acid alcohol until the stain ceases to come out of the sections.

7. Rinse in 70 per cent. alcohol, followed by distilled water.

8. Stain in (b) for five minutes.

9. Rinse in distilled water.

10. Differentiate by dipping the slides into 90 per cent. alcohol then examining rapidly under the microscope, repeating this process until the cell nuclei are well brought out, clearly stained bright red.

11. Dehydrate by rinsing quickly in absolute alcohol, then clear in xylol and mount in Cristalite or in canada balsam.

*Results:* Elastic fibres are stained dark red to reddish brown. Cell nuclei, bright red. Ground substance of hyaline cartilage, yellow.

### KULTSCHITZKY-PAL TECHNIQUE FOR MYELIN SHEATHS:

#### *Staining solutions:*

- (a) Flurochrome, 2 gm.  
Potassium bichromate, 5 gm.  
Distilled water, 100 mil.
- Add the potassium bichromate to the water and boil; then add the flurochrome; dissolve; cool; filter.
- (b) Kultschitzky's haematoxylin solution.
- (c) Lithium carbonate, saturated, aqueous, 100 mils.  
Potassium ferricyanide 1 per cent. aqueous, 10 mils.

#### *Technique:*

1. Slides of formalin-fixed tissue, not thicker than 5 mm., are immersed in (a) for four to seven days.

2. Wash in running water for four to six hours.  
3. Dehydrate in the usual manner, then embed in celloidin.

4. Stain sections in (b) from twelve to twenty-four hours in a closed staining jar.

5. Differentiate for several hours in (c) controlling by examination under the microscope at intervals of half to one hour, until the white matter is stained blue-black, and the grey matter is stained yellowish.

Note: Differentiation takes up to twelve hours for human spinal cord, and about four hours for human cerebral cortex.

6. Wash well in running water.

7. Dehydrate and clear by the standard celloidin method (see below).

8. Mount in Cristalite or canada balsam.

*Results:* Myelin sheaths, black. Ground substance, yellow.

### CELLOIDIN EMBEDDING

Celloidin embedding is employed where it is necessary to preserve the relations of cell layers of different consistency such as are contained in the eye. It is also used for large objects, for pieces of central nervous system, and for hard tissues such as decalcified bone.

#### *Solutions required:*

- (a) Celloidin 8 per cent. in a mixture consisting of equal volumes of absolute alcohol and ether.
- (b) Celloidin 4 per cent. in equal volumes of absolute alcohol and ether.
- (c) Celloidin 2 per cent. in equal volumes of absolute alcohol and ether.
- (d) Equal volumes of cedarwood oil (for clearing) and chloroform.

#### *Technique:*

##### *Wet method:*

1. Pieces of tissue not thicker than 5 mm. are fixed in the usual manner.

2. Immerse for about two hours in each of 50 per cent., 70 per cent. and 90 per cent. alcohol.

3. Immerse in absolute alcohol from two to sixteen hours, according to the nature and thickness of the material.

4. Immerse for twenty-four hours in a mixture consisting of equal volumes of absolute alcohol and ether.

5. Immerse in (c) for five to seven days, then transfer to (b) for the same length of time.

6. Impregnate in (a) for three to four days.

7. Transfer the material to a mould which can be made by folding a piece of writing paper, and place in a dessicator for several days, lifting the dessicator lid for a few seconds each day to hasten the hardening of the celloidin.

Note: If the tissue becomes exposed through shrinkage of the celloidin, cover the tissue with more 8 per cent. celloidin. The block is hard enough for sectioning when no impression is left after pressing with the ball of the thumb.

8. Fix the hardened celloidin block to a roughened wooden or vulcanite block by means of (a) and leave with a weight on top for at least half an hour. Expose to chloroform vapour for half an hour before attaching the block to the microtome holder.

Note: Alternatively the block may be stored in 80 per cent. alcohol until it is required for sectioning.

9. When cutting celloidin sections, keep the knife and the block moist with 70 per cent. alcohol, and transfer each section, as cut, by means of a camel hair brush moistened with 70 per cent. alcohol, into a suitable stoppered jar containing 70 per cent. alcohol in which the sections may be stored indefinitely until required for staining.

10. When required for staining the sections should be removed from the 70 per cent. alcohol by means of a camel hair brush or a piece of thin, bent glass rod and transferred to a series of watch glasses containing the reagents and stains, arranged on the bench in the order in which they will be used.

#### *Dry Method*

1. Proceed as described above up to and including step 6.

2. Take the tissue out of the celloidin and put it into a paper mould as described above (Step 7).
3. Place the block in a dessicator for a day, lifting the lid for a few seconds every hour or so; then leave in the dessicator overnight.
4. Place the block in a mixture consisting of equal volumes of cedarwood oil and chloroform.
5. *Small objects:* Add another eight volumes of cedarwood oil, one volume at a time, every hour. *Large objects:* Add the eight volumes of cedarwood oil one volume at a time every day.
6. The celloidin block, which should now be completely transparent, is fixed to the roughened wooden or vulcanite block (as described in step 8 above).
7. Sections may now be cut without the necessity of moistening the block or the knife.

*Note:* Blocks prepared by this method may be stored in a wide mouth stoppered bottle, dry.

#### PYRIDIN-CELOIDIN TECHNIQUE

A rapid method of dehydrating, clearing and embedding in celloidin, obviating the use of alcohols and the consequent hardening of tissues.

#### Reagents required:

- (a) Pyridin, for histology.
- (b) Celloidin 4 per cent. in a mixture consisting of equal volumes of absolute alcohol and ether.
- (c) Celloidin 8 per cent. in equal volumes of absolute alcohol and ether.

#### Technique:

1. Fix pieces of tissue in the usual manner.
2. Immerse in two changes of pyridin for two or eight hours in each.
3. Immerse for twenty-four hours in two changes of a mixture consisting of equal volumes of (a) and (b).
4. Immerse in (c) for twelve hours.
5. Remove the tissue from the celloidin bath, block and cut sections by one of the standard celloidin techniques as described above.

#### Demonstration of NEGRI BODIES

#### Solutions required:

- (a) Iodine, 0.5 gm.  
Alcohol, 70 per cent., 100 mils.
- (b) Sodium thiosulphate, 7.5 gm.  
Alcohol (ethyl), 96 per cent., 100 mils.
- (c) Rosaniline hydrochloride, 0.75 gm.  
Methylene blue, 0.5 gm.  
Methyl alcohol, pure, 50 mils.  
Glycerin, pure, 50 mils.
- (d) Potassium hydroxide, 0.25 per cent., 0.5 mils.  
Distilled water, 50 mils.
- (e) Solution (c), 20 mils.  
Solution (d), 0.5 mils.

*Note:* This solution should be freshly prepared immediately before it is required for use.

#### Technique:

1. Pieces of fresh tissue not more than 3 mm. thick, from the hippocampus major and cerebellum, are fixed in Zenker and embedded in paraffin wax by the standard method.
2. Dewax sections on slides with xylol.
3. Wash with absolute alcohol, followed by 90 per cent. alcohol.
4. Immerse in (a) for half to two minutes.
5. Wash well with water.
6. Immerse in (b) for half to two minutes until the colour of the sections has been restored.
7. Rinse well with water.
8. Place slides, sections facing upwards, over the corners of a tripod.
9. Flood slides with (e) and heat gently with a small bunsen flame, taking care that the solution does not take fire.
10. Allow the slides to cool for a few seconds; use quickly with water.
11. Decolorise and differentiate in 90 per cent. alcohol until the sections appear faint violet in colour to the naked eye.

12. Rinse quickly in 95 per cent. alcohol.
13. Dehydrate quickly with absolute alcohol.
14. Clear in xylol.
15. Mount in xylol balsam or Cristalite.

*Results:* Negri bodies are stained deep red, while granular inclusions are dark blue. Nucleoli, blue-black. Cytoplasm, bluish-violet. Erythrocytes, brownish orange.

#### DIFFERENTIAL STAINING OF GRAM POSITIVE AND GRAM NEGATIVE ORGANISMS IN SECTIONS OF ANIMAL TISSUE.

#### Solutions required:

- (a) Carbol fuchsin (Ziehl Neelsen).
- (b) Picric acid, saturated, aqueous.
- (c) Aniline gentian violet.
- (d) Gram's iodine, 10 mils.  
Aniline oil, 10 mils
- (e) Aniline-xylol.

#### Technique:

1. Fix pieces of tissue in Zenker and embed in paraffin wax in the usual way.
2. Cut sections about  $5\mu$  in thickness, fix to slides and dewax with xylol as usual.
3. Wash with absolute alcohol and treat the sections for the removal of mercuric precipitate by the standard method.
4. Stain in (a) for ten to thirty minutes.
5. Differentiate in formalin until the sections appear pink to the naked eye.
6. Rinse with distilled water.
7. Immerse in (b) for a few minutes until the sections appear purplish yellow to the naked eye.
8. Rinse in distilled water.
9. Differentiate with 95 per cent. alcohol until the sections appear red to the naked eye, and red and yellow colourations begin to come out of the sections.
10. Rinse in distilled water.
11. Stain in (c) for five to ten minutes.
12. Rinse in distilled water.
13. Stain in (d) for one minute.
14. Drain off excess (d) and blot dry.
15. Differentiate with (e) until colour ceases to come out of the sections.
16. Rinse with two lots of xylol, mount.

*Results:* Gram positive organisms, blue, gram negative, red. Tissue, red and blue. Fibrin, deep blue.

## A PHARMACIST'S ANTHOLOGY

TOINET: What the deuce do you do with this arm? . . . Here's an arm I'd have cut off immediately, if I were as you.

ARGAN: And why?

TOINET: Don't you see that it attracts all the nourishment to itself, and hinders this side from growing?

ARGAN: Yes, but I have occasion for my arm.

TOINET: You've a right eye there, too, that I would have plucked out, if I were in your place.

ARGAN: Pluck out an eye?

TOINET: Don't you find it incommodes the other, and robs it of all its nourishment? Believe me, have it plucked out as soon as possible, you'll see the clearer with the left eye.

ARGAN: There needs no hurry in this affair.

TOINET: Farewell. I'm sorry to quit you so soon, but I must be present at a grand consultation we are to have about a man who died yesterday.

ARGAN: About a man who died yesterday?

TOINET: Yes, to consider, and see what ought to have been done to have cured him.

(From "The Hypochondriack," by Molière)

## TRADE MARKS

### From the "Trade Marks Journal," November 5

*For pharmaceutical preparations (5).*

SULFENICOL, 708,443, by Allen & Hanburys, Ltd., London, E.2. FELQUIN, 711,005, by British Felsol Co., Ltd., London, E.C.1.

*For chemical substances for use in medicine and pharmacy (5).*

SYNOMA, 708,865, by Boots Pure Drug Co., Ltd., Nottingham.

*For fungicides, germicides and disinfectants (5).*

WAECO, 710,185, by Waeco, Ltd., Salisbury.

*For all goods (5).*

BONOMAX, 710,236, by Meggeson & Co., Ltd., London, S.E.16. PEDROL, 710,458, by John Richardson & Co., Leicester, Ltd., Leicester. PRUANIL, 710,812, by Prunol Proprietary, Ltd., London, E.C.2.

*For electrically heated blankets (10).*

SOLWARM, 708,061, by Robert Holt (Middlesex), Ltd., London, N.18.

### From the "Trade Marks Journal," November 12

*For agricultural chemicals (1)*

WINGED LION and device of winged lion, 695,363-67, by Potter & Clarke, Ltd., London, E.1.

*For industrial chemicals (1)*

HYSTRENE, 707,880, by the Trendex Co., Memphis, U.S.A.

*For photographic films and plates (1)*

MONOPHOTO, B708,499, by the Monotype Corporation, Ltd., London, W.C.2.

*For anti-freeze preparations (1)*

SNOWFLAKE, 709,473, by Shell Mex & B.P., Ltd., London, E.C.3.

*For fertilisers and manures (1)*

VITABONE, VITASAL, 710,206-07, by Edward Webb & Sons (Stourbridge), Ltd., Stourbridge.

*For non-medicated toilet preparations (3)*

Device of winged lion, 695,369, by Potter & Clarke, Ltd., London, E.1. Label device of bathing scene, 705,560, by Societa Accomandita Semplice Franco Cella & Co., Milan, Italy. FLASH D'OR, 710,489, by Edward Stanley Mitchell, Leeds.

*For all goods (3)*

BELUAN, 708,982, by Dr. Wurmbock, G.m.b.H., Munich, Germany.

*For detergents (3)*

PURAGENE, 710,051, by Puragene Products, Ltd., Oxford.

*For essential oils (3)*

BLACK LEAF, 711,332, by Stafford Allen & Sons, Ltd., London, N.1.

*For medicines for children (5)*

YAROX, 692,591, by Iyin Oluwa Medicine Stores, Lagos, West Africa.

*For all goods excluding medicated confectionery (5)*

CHERACOL, 709,250, by Upjohn of England, Ltd., London, E.C.2.

*For adhesive bandages (5)*

CURAD, 707,540, by the Kendall Co., Boston, U.S.A.

### TRADE MARKS

*For all goods (5)*

MYLERAN, 707,349, by The Wellcome Foundation, Ltd., London, N.W.1. BELUAN, 708,982, by Dr. Wurmbock, G.m.b.H., Munich, Germany.

*For medicinal preparations for human use (5)*

UNICAP, 709,258, by Upjohn of England, Ltd., London, E.C.2.

*For pharmaceutical preparations (5)*

JUVA, 709,078, by Organon Laboratories, Ltd., London, W.C.2. DIHYDERGOT, 709,681, by Sandoz, A.G., Basle, Switzerland. AUTOSTA 709,792, by Boots Pure Drug Co., Ltd., Nottingham. ARALIS, 709,884, by Winthrop Products Ltd., London, S.W.1. DINEVAN, 710,146, by Evans Medical Supplies, Ltd., Liverpool. MODERTENSON, RESTA-VITE, TERVUNG 711,161-63, by William James Rogers, Johannesburg, South Africa. ILEPTAN, 711,302, by Ciba Ltd., Basle, Switzerland.

*For anaesthetics (5)*

VERSICAINE, 709,965, by May & Baker, Ltd., Dagenham.

*For preparations consisting mainly of wheat-germ oil and cod-liver oil for addition to bird food (1)*

WHEATCLO, 709,496, by S. G. Mote, Ashtead.

*For sunglasses (9)*

CORONET, 709,259, by Thurgar Bolle (Successors), Ltd., Wellingborough, Northants.

*For photographic apparatus and instruments (9)*

EEL, 709,390, by Evans Electroselenium, Ltd., Harlow, Essex.

*For non-medicated toilet paper (16)*

PURITAN, 708,219, by Harold Wesley, Ltd., London, N.W.10.

## NEW GERMAN PROPRIETARIES

SPIROTRYPAN (sodium 2-di  $\beta$ -8-dioxy-propyl)-aminophenol (4-arseno-5)- $\beta$  [benzoxazolyl-(2')-mercapto propionate in aqueous solution. Solution contains arsenic, 2 per cent., sulphur, 0.43 per cent. 1 c.c. represents 0.1 gm. Neo-salvarsan. Considered an advance on Neo-salvarsan and Solu-salvarsan in activity and tolerance in all forms of syphilis especially neuro-syphilis, spirochaetoses, and trachoma infections. Dose: 60 to 70 mils intravenously or intramuscularly for full treatment. Issued in ampoules of 1.5, 3, 4.5 and 6 mils by Farbwerke Hoechst, Frankfurt-am-Main. (Apothekerztg, January, 1952).

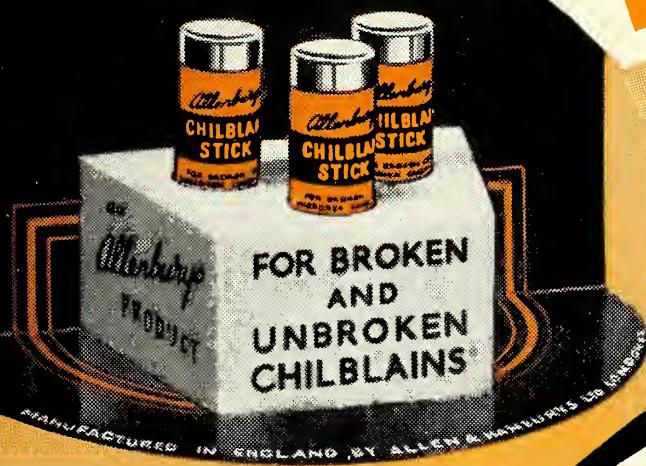
CYNOSID (pure alcoholic solution of cymarin obtained from *Apocynum cannabinum*. Strophantidin-like action effective orally. Indicated in insufficiency of heart muscle, decompensated hypertension, myocardial damage in aged heart, uncompensated valvular defects with dilatation. Dosage: 10 to 20 drops three times a day. In especially resistant cases 30 drops three times daily. For continuous treatment: 25 drops, three times daily and 10 drops, three times daily alternately. Issued in packs of 10, 250 and 1,000 mils by Dr. Willmar Schwabe, G.m.b.H., Carlsruhe. (Dtsch Apothekerztg, January 4).

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